

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, DC 20549**

FORM 10-Q

(Mark One)
 QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934
For the quarterly period ended June 30, 2021

OR

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934
For the transition period from _____ to _____
Commission File Number: 001-39509

Dyne Therapeutics, Inc.

(Exact Name of Registrant as Specified in its Charter)

Delaware
(State or other jurisdiction of
incorporation or organization)
830 Winter Street
Waltham, Massachusetts
(Address of principal executive offices)

36-4883909
(I.R.S. Employer
Identification No.)

02451
(Zip Code)

(781) 786-8230

(Registrant's telephone number, including area code)

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common Stock, \$0.0001 par value per share	DYN	Nasdaq Global Select Market

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer	<input type="checkbox"/>	Accelerated filer	<input type="checkbox"/>
Non-accelerated filer	<input checked="" type="checkbox"/>	Smaller reporting company	<input checked="" type="checkbox"/>
		Emerging growth company	<input checked="" type="checkbox"/>

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes No

As of July 31, 2021, the registrant had 51,278,464 shares of common stock, \$0.0001 par value per share, outstanding.

Table of Contents

	<u>Page</u>
CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS	2
PART I. FINANCIAL INFORMATION	4
Item 1. Financial Statements (Unaudited)	4
Condensed Consolidated Balance Sheets	4
Condensed Consolidated Statements of Operations and Comprehensive Loss	5
Condensed Consolidated Statements of Stockholders' Equity (Deficit)	6
Condensed Consolidated Statements of Cash Flows	7
Notes to Unaudited Condensed Consolidated Financial Statements	8
Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations	18
Item 3. Quantitative and Qualitative Disclosures About Market Risk	27
Item 4. Controls and Procedures	27
PART II. OTHER INFORMATION	28
Item 1A. Risk Factors	28
Item 2. Unregistered Sales of Equity Securities and Use of Proceeds	81
Item 3. Defaults Upon Senior Securities	81
Item 4. Mine Safety Disclosures	81
Item 5. Other Information	81
Item 6. Exhibits	82
Signatures	83

We own or have rights to trademarks, service marks and trade names that we use in connection with the operation of our business, including our corporate name, logos and website names. The service marks and trademarks that we own include the marks Dyne Therapeutics™ and FORCE™. Other trademarks, service marks and trade names appearing in this Quarterly Report on Form 10-Q are the property of their respective owners. Solely for convenience, some of the trademarks, service marks and trade names referred to in this Quarterly Report on Form 10-Q are listed without the ® and ™ symbols, but we will assert, to the fullest extent under applicable law, our rights to our trademarks, service marks and trade names.

CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS

This Quarterly Report on Form 10-Q, or this Quarterly Report, contains forward-looking statements within the meaning of the U.S. Private Securities Litigation Reform Act and Section 21E of the Securities Exchange Act of 1934, as amended, that involve substantial risk and uncertainties. All statements other than statements of historical fact, contained in this Quarterly Report, including statements regarding our strategy, future operations, future financial position, future revenue, projected costs, prospects, plans and objectives of management, are forward-looking statements. The words “anticipate,” “believe,” “continue,” “could,” “estimate,” “expect,” “intend,” “may,” “might,” “plan,” “potential,” “predict,” “project,” “should,” “target,” “would,” or the negative of these words or other similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words.

The forward-looking statements in this Quarterly Report include, among other things, statements about:

- the initiation, timing, progress and results of our research and development programs and preclinical studies and clinical trials;
- the anticipated timing of the submission of investigational new drug applications, or INDs, for any product candidates we develop;
- the impact of the ongoing COVID-19 pandemic and our response to it;
- our estimates regarding expenses, future revenue, capital requirements, need for additional financing and the period over which we believe our cash, cash equivalents and marketable securities, will be sufficient to fund our operating expenses and capital expenditure requirements;
- our plans to develop and, if approved, subsequently commercialize any product candidates we may develop;
- the timing of and our ability to submit applications for, obtain and maintain regulatory approvals for any product candidates we may develop;
- the potential advantages of our FORCE platform;
- our commercialization, marketing and manufacturing capabilities and strategy;
- our intellectual property position and our expectations regarding our ability to obtain and maintain intellectual property protection;
- our ability to identify additional products, product candidates or technologies with significant commercial potential that are consistent with our commercial objectives;
- the impact of government laws and regulations;
- our competitive position and expectations regarding developments and projections relating to our competitors and any competing therapies that are or become available;
- developments and expectations regarding developments and projections relating to our competitors and our industry;
- our ability to establish and maintain collaborations or obtain additional funding; and
- our expectations regarding the time during which we will be an emerging growth company under the JOBS Act.

We may not actually achieve the plans, intentions or expectations disclosed in our forward-looking statements, and you should not place undue reliance on our forward-looking statements. Actual results or events could differ materially from the plans, intentions and expectations disclosed in the forward-looking statements we make. We have included important factors in the cautionary statements included in this Quarterly Report, particularly in Item 1A. “Risk Factors” in this Quarterly Report, that we believe could cause actual results or events to differ materially from the forward-looking statements that we make. Moreover, we operate in a competitive and rapidly changing environment. New risk factors and uncertainties may emerge from time to time, and it is not possible for management to predict all risk factors and uncertainties, nor can we assess the impact of all factors on our business or the extent to which any factor, or combination of factors, may cause actual results to differ materially from those contained in any forward-looking statements we may make. Our forward-looking statements do not reflect the potential impact of any future acquisitions, mergers, dispositions, collaborations, joint ventures or investments we may make or enter into.

You should read this Quarterly Report and the documents that we have filed or incorporated by reference as exhibits to this Quarterly Report with the understanding that our actual future results may be materially different from what we expect. The forward-looking statements contained in this Quarterly Report are made as of the date of this Quarterly Report, and we do not assume any obligation to update any forward-looking statements, whether as a result of new information, future events or otherwise, except as required by applicable law.

RISK FACTOR SUMMARY

Our business is subject to a number of risks that, if realized, could materially affect our business, prospects, operating results and financial condition. These risks are discussed more fully in the "Risk Factors" section of this Quarterly Report. These risks include, but are not limited to, the following:

- our limited operating history may make it difficult to evaluate the success of our business to date and to assess our future viability;
- we are very early in our development efforts. Our product candidates are in varying stages of preclinical development, and we have not advanced any product candidate into clinical development. As a result it will be many years before we commercialize a product candidate, if ever. If we are unable to advance product candidates through preclinical studies and clinical trials, obtain marketing approval and ultimately commercialize them, or experience significant delays in doing so, our business will be materially harmed;
- we may encounter substantial delays in commencement, enrollment or completion of our clinical trials or we may fail to demonstrate safety and efficacy to the satisfaction of applicable regulatory authorities, which could prevent us from commercializing any product candidates we determine to develop on a timely basis, if at all;
- our approach to the discovery and development of product candidates based on our FORCE platform is unproven, and we may not be successful in our efforts to develop our product candidates;
- the outcome of preclinical studies and earlier-stage clinical trials may not be predictive of future results or the success of later preclinical studies and clinical trials;
- if our product candidates cause undesirable side effects or have other unexpected adverse properties, such side effects or properties could delay or prevent regulatory approval, limit the commercial potential or result in significant negative consequences following any potential marketing approval;
- we rely, and expect to continue to rely, on third parties to conduct some or all aspects of our product manufacturing, research, preclinical and clinical testing, and these third parties may not perform satisfactorily;
- we face substantial competition, which may result in others discovering, developing or commercializing products before us or more successfully than we do;
- our rights to develop and commercialize any product candidates are subject and may in the future be subject, in part, to the terms and conditions of licenses granted to us by third parties. If we fail to comply with our obligations under current or future intellectual property license agreements or otherwise experience disruptions to our business relationships with our current or any future licensors, we could lose intellectual property rights that are important to our business;
- if we or our licensors are unable to obtain, maintain and defend patent and other intellectual property protection for any product candidates or technology, or if the scope of the patent or other intellectual property protection obtained is not sufficiently broad, our competitors could develop and commercialize products and technology similar or identical to ours, and our ability to successfully develop and commercialize our product candidates or our technology may be adversely affected due to such competition; and
- the COVID-19 pandemic may affect our ability to initiate and complete preclinical studies, delay the initiation of our planned clinical trial or future clinical trials, disrupt regulatory activities, or have other adverse effects on our business and operations. In addition, this pandemic has caused substantial disruption in the financial markets and may adversely impact economies worldwide, which could negatively impact our operations.

PART I—FINANCIAL INFORMATION

Item 1. Condensed Consolidated Financial Statements (Unaudited)

Dyne Therapeutics, Inc.
Condensed Consolidated Balance Sheets (Unaudited)
(in thousands, except share and per share data)

	June 30, 2021	December 31, 2020
Assets		
Current assets:		
Cash and cash equivalents	\$ 258,385	\$ 300,852
Marketable securities	177,204	44,462
Prepaid expenses and other current assets	25,708	3,773
Total current assets	461,297	349,087
Property and equipment, net	2,589	1,946
Right-of-use asset	376	—
Restricted cash and other assets	2,885	2,301
Total assets	\$ 467,147	\$ 353,334
Liabilities and Stockholders' Equity		
Current liabilities:		
Accounts payable	5,649	3,440
Accrued expenses and other current liabilities	8,499	7,527
Lease liability	403	—
Total liabilities	14,551	10,967
Commitments and contingencies (Note 9)		
Stockholders' equity		
Preferred stock, \$0.0001 par value; 10,000,000 shares authorized at June 30, 2021 and December 31, 2020	—	—
Common stock, \$0.0001 par value; 200,000,000 shares authorized at June 30, 2021 and December 31, 2020; 51,441,908 and 45,446,903 shares issued and 51,232,341 and 45,076,574 shares outstanding at June 30, 2021 and December 31, 2020, respectively	6	5
Additional paid-in capital	586,737	421,572
Accumulated other comprehensive loss	(41)	(27)
Accumulated deficit	(134,106)	(79,183)
Total stockholders' equity	452,596	342,367
Total liabilities and stockholders' equity	\$ 467,147	\$ 353,334

The accompanying notes are an integral part of these unaudited condensed consolidated financial statements.

Dyne Therapeutics, Inc.
Condensed Consolidated Statements of Operations and Comprehensive Loss (Unaudited)
(in thousands, except share and per share data)

	Three Months Ended June 30,		Six Months Ended June 30,	
	2021	2020	2021	2020
Operating expenses:				
Research and development	\$ 23,872	\$ 7,334	\$ 42,496	\$ 13,423
General and administrative	6,293	1,341	12,802	3,105
Total operating expenses	30,165	8,675	55,298	16,528
Loss from operations	(30,165)	(8,675)	(55,298)	(16,528)
Other (expense) income:				
Interest income	210	—	375	24
Interest expense	—	(127)	—	(184)
Change in success fee obligation	—	(180)	—	(180)
Total other (expense) income, net	210	(307)	375	(340)
Net loss	\$ (29,955)	\$ (8,982)	\$ (54,923)	\$ (16,868)
Net loss per share—basic and diluted	\$ (0.58)	\$ (3.31)	\$ (1.09)	\$ (6.31)
Weighted-average common shares outstanding used in net loss per share—basic and diluted	51,216,254	2,710,556	50,349,193	2,675,260
Comprehensive loss:				
Net loss	\$ (29,955)	\$ (8,982)	\$ (54,923)	\$ (16,868)
Other comprehensive loss:				
Unrealized gains (losses) on marketable securities, net	27	—	(14)	—
Comprehensive loss	\$ (29,928)	\$ (8,982)	\$ (54,937)	\$ (16,868)

The accompanying notes are an integral part of these unaudited condensed consolidated financial statements.

Dyne Therapeutics, Inc.
Condensed Consolidated Statements of Stockholders' Equity (Deficit) (Unaudited)
(in thousands, except share data and issuance costs)

(in thousands, except per share data)	Convertible Preferred Stock		Common Stock		Additional Paid-In Capital	Accumulated Other Comprehensive Loss	Accumulated Deficit	Stockholders' Equity (Deficit)
	Shares	Amount	Shares	Amount				
Balance at January 1, 2021	—	\$ —	45,076,574	\$ 5	\$ 421,572	\$ (27)	\$ (79,183)	\$ 342,367
Issuance of common stock upon follow-on public offering, net of issuance costs of \$0.7 million	—	—	6,000,000	1	157,236	—	—	157,237
Exercise of stock options	—	—	11,163	—	13	—	—	13
Stock-based compensation	—	—	—	—	3,652	—	—	3,652
Vesting of restricted shares	—	—	70,539	—	—	—	—	—
Unrealized losses on marketable securities	—	—	—	—	—	(41)	—	(41)
Net loss	—	—	—	—	—	—	(24,968)	(24,968)
Balance at March 31, 2021	—	\$ —	51,158,276	\$ 6	\$ 582,473	\$ (68)	\$ (104,151)	\$ 478,260
Exercise of stock options	—	—	10,088	—	25	—	—	25
Stock-based compensation	—	—	—	—	4,239	—	—	4,239
Vesting of restricted shares	—	—	63,977	—	—	—	—	—
Unrealized losses on marketable securities	—	—	—	—	—	27	—	27
Net loss	—	—	—	—	—	—	(29,955)	(29,955)
Balance at June 30, 2021	—	\$ —	51,232,341	\$ 6	\$ 586,737	\$ (41)	\$ (134,106)	\$ 452,596

(in thousands, except per share data)	Convertible Preferred Stock		Common Stock		Additional Paid-In Capital	Accumulated Other Comprehensive Loss	Accumulated Deficit	Stockholders' Equity (Deficit)
	Shares	Amount	Shares	Amount				
Balance at January 1, 2020	32,500,000	\$ 27,429	2,586,535	\$ 1	\$ 6,352	\$ —	\$ (19,746)	\$ 14,036
Issuance of Series A convertible preferred stock, net of issuance costs of \$0.1 million	2,000,000	1,972	—	—	—	—	—	1,972
Vesting of restricted shares	—	—	70,538	—	—	—	—	—
Stock-based compensation	—	—	—	—	66	—	—	66
Net loss	—	—	—	—	—	—	(7,886)	(7,886)
Balance at March 31, 2020	34,500,000	\$ 29,401	2,657,073	\$ 1	\$ 6,418	\$ —	\$ (27,632)	\$ 8,188
Exercise of stock options	—	—	753	—	—	—	—	—
Stock-based compensation	—	—	—	—	75	—	—	75
Vesting of restricted shares	—	—	70,539	—	—	—	—	—
Net loss	—	—	—	—	—	—	(8,982)	(8,982)
Balance at June 30, 2020	34,500,000	\$ 29,401	2,728,365	\$ 1	\$ 6,493	\$ —	\$ (36,614)	\$ (719)

The accompanying notes are an integral part of these unaudited condensed consolidated financial statements.

Dyne Therapeutics, Inc.
Condensed Consolidated Statements of Cash Flows (Unaudited)
(in thousands)

	Six Months Ended June 30,	
	2021	2020
Cash flows from operating activities:		
Net loss	\$ (54,923)	\$ (16,868)
Adjustments to reconcile net loss to net cash used in operating activities:		
Stock-based compensation expense	7,891	141
Depreciation and amortization expense	487	308
Amortization of debt discount	—	13
Non-cash lease expense	(15)	—
Amortization (accretion) of premium (discount) on marketable securities	1,146	—
Changes in success fee obligation	—	180
Changes in operating assets and liabilities:		
Prepaid expenses and other current assets	(21,393)	(82)
Other assets	(578)	—
Accounts payable and other liabilities	2,842	1,722
Net cash used in operating activities	(64,543)	(14,586)
Cash flows from investing activities:		
Purchases of property and equipment	(747)	(282)
Purchases of marketable securities	(156,562)	—
Maturities of marketable securities	22,500	—
Net cash used in investing activities	(134,809)	(282)
Cash flows from financing activities:		
Proceeds from follow-on public offering of common stock, net of issuance costs	157,237	—
Proceeds from issuance of debt, net of issuance costs	—	9,936
Proceeds from issuance of convertible preferred stock, net of issuance costs	—	1,972
Proceeds from exercise of stock options	38	—
Net cash provided by financing activities	157,275	11,908
Net increase in cash and cash equivalents	(42,077)	(2,960)
Cash, cash equivalents and restricted cash, beginning of period	303,153	14,632
Cash, cash equivalents and restricted cash, end of period	\$ 261,076	\$ 11,672
Supplemental cash flow information:		
Cash paid for interest and taxes	\$ —	\$ 183
Supplemental disclosure of non-cash investing and financing information:		
Purchase of property and equipment in accounts payable	\$ 383	\$ 39
Issuance costs from convertible preferred stock included in accounts payable or accrued expenses	\$ —	\$ —

The accompanying notes are an integral part of these unaudited condensed consolidated financial statements.

Dyne Therapeutics, Inc.
Notes to Condensed Consolidated Financial Statements (Unaudited)

1. Nature of the Business and Basis of Presentation

Dyne Therapeutics, Inc. (the "Company") is building a leading muscle disease company focused on advancing innovative life-transforming therapeutics for people living with genetically driven diseases that was incorporated in Delaware on December 1, 2017 and has a principal place of business in Waltham, Massachusetts.

The Company is subject to risks and uncertainties common to early-stage companies in the biotechnology industry, including, but not limited to, development by competitors of new technological innovations, dependence on key personnel, protection of proprietary technology, risks of failure of preclinical studies and clinical trials, the need to obtain marketing approval for its product candidates, fluctuations in operating results, compliance with government regulations, the ability to establish clinical- and commercial-scale manufacturing processes, the impact of the COVID-19 pandemic and the ability to secure additional capital to fund operations. Programs currently under development will require significant additional research and development efforts, including extensive preclinical and clinical testing and regulatory approval prior to commercialization of a product. These efforts require significant amounts of additional capital, adequate personnel and infrastructure and extensive compliance-reporting capabilities. Even if the Company's development efforts are successful, it is uncertain when, if ever, the Company will realize significant revenue from product sales.

On September 21, 2020, the Company completed its initial public offering ("IPO") pursuant to which it issued and sold 14,089,314 shares of its common stock, including 1,837,736 shares pursuant to the full exercise of the underwriters' option to purchase additional shares, at a public offering price of \$19.00 per share, resulting in net proceeds of \$246.4 million, after deducting underwriting discounts and commissions and offering expenses. Upon the closing of the IPO, all of the Company's then outstanding convertible preferred stock automatically converted into shares of common stock.

On January 25, 2021, the Company completed a follow-on public offering of common stock pursuant to which it issued and sold 6,000,000 shares of its common stock at a public offering price of \$28.00 per share, resulting in net proceeds of \$157.2 million, after deducting underwriting discounts and commissions and offering expenses.

The accompanying condensed consolidated financial statements have been prepared on the basis of continuity of operations, realization of assets and the satisfaction of liabilities and commitments in the ordinary course of business. Since inception, the Company has funded its operations with proceeds from the sales of preferred stock and common stock, including the IPO completed in September 2020 and the follow-on offering completed in January 2021. The Company expects to continue to generate operating losses for the foreseeable future. The Company expects that its cash, cash equivalents and marketable securities will be sufficient to fund its operating expenses and capital expenditure requirements for at least 12 months from the issuance of these condensed consolidated financial statements.

To continue its development efforts, the Company will need to obtain substantial additional funding through public or private equity offerings, debt financings, collaborations, strategic alliances and/or licensing arrangements in order to fund its research and development and ongoing operating expenses. The Company may not be able to obtain financing on acceptable terms, when needed or at all, and the Company may not be able to enter into collaborations, strategic alliances or licensing arrangements. The terms of any financing may adversely affect the holdings or the rights of the Company's stockholders. Any collaborations, strategic alliances or licensing arrangements may require the Company to relinquish rights to certain of its technologies, future revenue streams, research programs or product candidates or grant licenses on terms that may not be favorable to the Company. If the Company is unable to obtain funding, the Company could be forced to delay, limit, reduce or eliminate some or all of its research and development programs, pipeline expansion or future commercialization efforts or grant rights to develop and market product candidates, which could adversely affect its business prospects. Although management will continue to pursue these plans, there is no assurance that the Company will be successful in obtaining sufficient funding on terms acceptable to the Company to fund continuing operations when needed or at all.

To date, the Company has not experienced material business disruptions, including with its vendors, as a result of the COVID-19 pandemic. In March 2020, the Company implemented a remote working policy for many of its employees and began restricting non-essential travel, and in May 2020, when Massachusetts began its staged reopening plan, the Company began implementing a return-to-work plan, in accordance with the guidance and requirements of federal and state authorities. The Company expects to continue to take actions as may be required or recommended by government authorities or as it determines are in the best interests of its employees and other business partners. The Company is continuing to monitor the potential impact of the pandemic, but cannot be certain what the overall impact will be on its business, financial condition, results of operations and prospects.

2. Summary of Significant Accounting Policies

The accompanying financial statements have been prepared in conformity with generally accepted accounting principles (“GAAP”) in the United States of America. Any reference in these notes to applicable guidance is meant to refer to the authoritative GAAP as found in the Accounting Standards Codification (“ASC”) and Accounting Standards Update (“ASU”) of the Financial Accounting Standards Board (“FASB”).

The financial statements of the Company included herein have been prepared, without audit, pursuant to the rules and regulations of the Securities and Exchange Commission (the “SEC”). The unaudited interim financial statements have been prepared on the same basis as audited annual financial statements, except certain information and footnote disclosures normally included in financial statements prepared in accordance with GAAP have been condensed or omitted from this report, as is permitted by such rules and regulations. In the opinion of management, the interim financial information reflects all adjustments, all of which are of a normal and recurring nature, necessary for a fair representation of the results for the reported periods. Accordingly, these financial statements should be read in conjunction with the financial statements and notes thereto included in the Company’s annual report on Form 10-K filed with the SEC on March 4, 2021. The results for the six months ended June 30, 2021 are not necessarily indicative of results to be expected for the year ending December 31, 2021, any other interim periods, or any future year or period.

Marketable securities

The Company’s marketable securities as of June 30, 2021 consisted of commercial paper, certificates of deposit, corporate debt securities and US treasury securities and are classified as available-for-sale and are reported at fair value. Unrealized losses on available-for-sale debt securities are reported as a component of accumulated other comprehensive loss in stockholders’ equity. Realized gains and losses are based on the specific identification method and are included as a component of other income (expense), net in the condensed consolidated statements of operations and comprehensive loss.

The Company evaluates its marketable securities with unrealized losses for other-than-temporary impairment. When assessing marketable securities for other-than-temporary declines in value, the Company considers such factors as, among other things, how significant the decline in value is as a percentage of the original cost, how long the market value of the investment has been less than its original cost, the Company’s ability and intent to retain the investment for a period of time sufficient to allow for any anticipated recovery in fair value and market conditions in general. If any adjustment to fair value reflects a decline in the value of the investment that the Company considers to be “other than temporary,” the Company reduces the investment to fair value through a charge to the statement of operations and comprehensive loss. No such adjustments were necessary during the periods presented.

Property and equipment

Property and equipment are stated at cost less accumulated depreciation and amortization. Depreciation and amortization expense is recognized using the straight-line method over the estimated useful life of each asset as follows:

	Estimated Useful Life
Laboratory equipment	5 years
Furniture and fixtures	5 years
Computer equipment	3 years
Leasehold improvements	Shorter of life of lease or 10 years

Costs for capital assets not yet placed into service are capitalized as construction-in-progress and depreciated once placed into service. Upon retirement or sale, the cost of assets disposed of and the related accumulated depreciation and amortization are removed from the accounts and any resulting gain or loss is included in loss from operations. Expenditures for repairs and maintenance which do not improve or extend the life of the respective assets are charged to expense as incurred.

Leases

Prior to January 1, 2021, the Company accounted for leases under ASC 840, *Leases* (“ASC 840”). The Company recorded monthly rent expense on a straight-line basis, equal to the total of the payments due over the lease term, divided by the number of months of the lease term. The difference between rent expense recorded and the amount paid was charged to deferred rent.

Effective January 1, 2021, the Company adopted ASU 2016-02, *Leases (Topic 842)* (“ASC 842”), using the modified retrospective approach transition method as of the date of adoption. Under this method, financial statements for reporting

periods after adoption are presented in accordance with ASC 842 and prior-period financial statements continue to be presented in accordance with ASC 840. Upon adoption, the Company recognized lease liabilities totaling \$0.8 million and right-of-use assets totaling \$0.7 million.

Under ASC 842, at the inception of an arrangement, the Company determines whether the arrangement is or contains a lease based on the unique facts and circumstances presented in the arrangement, including whether the Company controls the use of identified assets. The Company classifies leases with a term greater than one year as either operating or finance leases at the lease commencement date and records a right-of-use assets and current and non-current lease liabilities, as applicable on the balance sheet. The Company has elected not to recognize on the balance sheet leases with terms of one year or less, but payments are recognized as expense on a straight-line basis over the lease term. If a lease includes options to extend the lease term, the Company does not assume the option will be exercised in its initial lease term assessment unless there is reasonable certainty that the Company will renew based on an assessment of economic factors present as of the lease commencement date. The Company monitors its plans to renew its material leases each reporting period.

Lease liabilities and the corresponding right-of-use assets are recorded based on the present value of lease payments over the remaining lease term. The present value of future lease payments are discounted using the interest rate implicit in lease contracts if that rate is readily determinable; otherwise the Company utilizes its incremental borrowing rate ("IBR"), which reflects the fixed rate at which the Company could borrow on a collateralized basis over a similar term, the amount of the lease payments in a similar economic environment. After lease commencement and the establishment of a right-to-use asset and operating lease liability, lease expense is recorded on a straight-line basis over the lease term.

The Company enters into contracts that contain both lease and non-lease components. Non-lease components include costs that do not provide a right-to-use a leased asset but instead provide a service, such as maintenance costs. The Company has elected to account for the lease and non-lease components together as a single component for all classes of underlying assets. Variable costs associated with the lease, such as maintenance and utilities, are not included in the measurement of right-to-use assets and lease liabilities but rather are expensed when the events determining the amount of variable consideration to be paid have occurred.

Segment information

Operating segments are identified as components of an enterprise about which separate discrete financial information is available for evaluation by the chief operating decision maker, or decision-making group, in making decisions on how to allocate resources and assess performance. The Company's chief operating decision maker is the chief executive officer ("CEO"). The CEO views the Company's operations and manages the business as one operating segment.

Fair value measurements

Certain assets and liabilities are carried at fair value. Fair value is defined as the amount that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. Valuation techniques used to measure fair value must maximize the use of observable inputs and minimize the use of unobservable inputs. Financial assets and liabilities carried at fair value are to be classified and disclosed in one of the following three levels of the fair value hierarchy, of which the first two are considered observable and the last is considered unobservable:

- Level 1—Unadjusted quoted prices in active markets that are accessible to the reporting entity at the measurement date for identical assets and liabilities.
- Level 2—Inputs other than quoted prices in active markets for identical assets and liabilities that are observable either directly or indirectly for substantially the full term of the asset or liability. Level 2 inputs include the following:
 - quoted prices for similar assets and liabilities in active markets;
 - quoted prices for identical or similar assets or liabilities in markets that are not active;
 - observable inputs other than quoted prices that are used in the valuation of the asset or liabilities (e.g., interest rate and yield curve quotes at commonly quoted intervals); and
 - inputs that are derived principally from or corroborated by observable market data by correlation or other means.
- Level 3—Unobservable inputs for the assets or liability (i.e., supported by little or no market activity). Level 3 inputs include management's own assumptions about the assumptions that market participants would use in pricing the asset or liability (including assumptions about risk).

Net loss per share

In the periods prior to the IPO, the Company followed the two-class method when computing net loss per share as the Company had issued shares that met the definition of participating securities. The two-class method determines net income (loss) per share for each class of common and participating securities according to dividends declared or accumulated and participation rights in undistributed earnings. The two-class method requires income available to common stockholders for the period to be allocated between common and participating securities based upon their respective rights to receive dividends as if all income for the period had been distributed. During periods of loss, the Company does not allocate loss to participating securities because they have no contractual obligation to share in the losses of the Company. Following the IPO, there were no participating securities outstanding.

Basic net loss per share is computed by dividing the net loss by the weighted average number of shares of common stock outstanding for the period. Diluted net loss is computed by adjusting net loss to reallocate undistributed earnings based on the potential impact of dilutive securities. Diluted net loss per share is computed by dividing the diluted net loss by the weighted average number of shares of common stock outstanding for the period, including potential dilutive common shares assuming the dilutive effect of common stock equivalents.

3. Cash, Cash Equivalents and Restricted Cash

Cash includes cash in readily available checking accounts and cash equivalents include all highly liquid investments maturing within 90 days from the date of purchase.

Amounts included in restricted cash represent amounts pledged as collateral for letters of credit required for security deposits on the Company's leased facilities. Restricted cash totaled \$2.7 million and \$2.3 million at June 30, 2021 and December 31, 2020, respectively. These amounts are classified as a component of other current assets and as restricted cash on the Company's condensed consolidated balance sheets.

Cash, cash equivalents and restricted cash consisted of the following:

(in thousands)	June 30,		December 31,	
	2021		2020	
Cash and cash equivalents	\$	258,385	\$	300,852
Short term restricted cash		383		—
Restricted cash		2,308		2,301
Total	\$	261,076	\$	303,153

4. Fair Value Measurements

The following tables set forth by security type, marketable securities for the periods presented:

(in thousands)	As of June 30, 2021			
	Amortized Cost	Unrealized Gains	Unrealized Losses	Total
Commercial paper	\$ 19,139	\$ —	\$ (1)	\$ 19,138
Certificates of deposit	4,806	—	—	4,806
Corporate debt securities	131,457	9	(48)	131,418
US treasury notes	21,843	2	(3)	21,842
Total	\$ 177,245	\$ 11	\$ (52)	\$ 177,204

(in thousands)	As of December 31, 2020			
	Amortized Cost	Unrealized Gains	Unrealized Losses	Total
Commercial paper	\$ 6,412	\$ —	\$ —	\$ 6,412
Certificates of deposit	1,504	—	—	1,504
Corporate debt securities	36,573	—	(27)	36,546
Total	\$ 44,489	\$ —	\$ (27)	\$ 44,462

The following tables set forth by level, within the fair value hierarchy, the assets carried at fair value on a recurring basis for the periods presented:

(in thousands)	Fair value measurements as of June 30, 2021			
	Level 1	Level 2	Level 3	Total
Assets:				
Cash equivalents				
Money market funds	\$ 142,399	\$ —	\$ —	\$ 142,399
Commercial paper	—	—	—	—
Marketable securities				
Commercial paper	19,138	—	—	19,138
Certificates of deposit	—	4,806	—	4,806
Corporate debt securities	—	131,418	—	131,418
US treasury notes	21,842	—	—	21,842
Total	\$ 183,379	\$ 136,224	\$ —	\$ 319,603

(in thousands)	Fair Value Measurements as of December 31, 2020			
	Level 1	Level 2	Level 3	Total
Assets:				
Cash equivalents				
Money market funds	\$ 155,017	\$ —	\$ —	\$ 155,017
Commercial paper	2,999	—	—	2,999
Certificates of deposit	—	5,309	—	5,309
Marketable securities				
Commercial paper	6,412	—	—	6,412
Certificates of deposit	—	1,504	—	1,504
Corporate debt securities	—	36,545	—	36,545
Total	\$ 164,428	\$ 43,358	\$ —	\$ 207,786

The fair value of money market funds, commercial paper and US treasury notes were determined by the Company based on quoted market prices, which represent a Level 1 measurement within the fair value hierarchy. Certificates of deposit and corporate debt securities notes were valued by the Company using quoted prices in active markets for similar securities, which represent a Level 2 measurement within the fair value hierarchy.

There were no transfers between Level 1, Level 2, or Level 3 during the periods presented.

The following table summarizes the scheduled maturity for the Company's marketable securities at June 30, 2021:

(in thousands)	June 30, 2021
Maturing in one year or less	\$ 140,960
Maturing in one year through two years	36,244
Maturing after two years	—
Total	\$ 177,204

Financial instruments not recorded at fair value

The carrying values of cash, accounts payable and accrued expenses that are reported on the balance sheets approximate their fair value due to the short-term nature of these assets and liabilities.

5. Property and Equipment

Property and equipment consisted of the following:

(in thousands)	June 30,		December 31,	
	2021		2020	
Laboratory equipment	\$	3,130	\$	2,744
Office and computer equipment		79		78
Leasehold improvements		14		14
Construction in process		849		105
Property and equipment—at cost		4,072		2,941
Less accumulated depreciation and amortization		(1,483)		(995)
Property and equipment—net	\$	2,589	\$	1,946

Depreciation and amortization expense for the three and six months ended June 30, 2021 was \$0.2 million and \$0.5 million, respectively. Depreciation and amortization expense for the three and six months ended June 30, 2020, was \$0.2 million and \$0.3 million, respectively.

6. Accrued Expenses and Other Current Liabilities

Accrued expenses and other current liabilities consisted of the following:

(in thousands)	June 30,		December 31,	
	2021		2020	
Payroll and benefits	\$	1,591	\$	2,105
Consulting services		526		263
Legal services		203		325
Research and development		6,179		4,782
Facility costs		-		52
Total	\$	8,499	\$	7,527

7. Stock-Based Awards

2018 Stock Incentive Plan

The Company's 2018 Stock Incentive Plan (the "2018 Plan") provided for the Company to sell or issue incentive stock options or nonqualified stock options, restricted stock, and other equity awards to employees, directors and consultants of the Company. The 2018 Plan was administered by the board of directors or, at the discretion of the board of directors, by a committee of the board of directors. The exercise prices, vesting and other restrictions were determined at the discretion of the board of directors.

The total number of shares of common stock authorized under the 2018 Plan was 8,267,252 shares. Upon the effectiveness of the 2020 Stock Incentive Plan (the "2020 Plan"), the Company ceased granting awards under the 2018 Plan, and the 1,928,487 shares of common stock remaining under the 2018 Plan became available for future issuance under the 2020 Plan.

2020 Stock Incentive Plan

In August 2020 the Company's board of directors adopted and the Company's stockholders approved the 2020 Plan, which became effective on September 16, 2020. The 2020 Plan provides for the grant of incentive stock options, nonstatutory stock options, stock appreciation rights, restricted stock awards, restricted stock units and other stock-based awards to employees, directors, consultants and advisors of the Company. The 2020 Plan is administered by the Company's board of directors or by a committee appointed by the board of directors. Upon the effectiveness of the 2020 Plan, the Company ceased granting awards under the 2018 Plan. The number of shares initially reserved for issuance under the 2020 Plan was 4,884,233. The number of shares of common stock reserved for issuance under the 2020 Plan will automatically increase on the first day of each fiscal year, beginning with the fiscal year commencing on January 1, 2021 and continuing for each fiscal year until, and including the fiscal year commencing on, January 1, 2030, in an amount equal to the lower of (1) 5% of the shares of common stock outstanding on such date and (2) an amount determined by the Company's board of directors. On January 1, 2021, 2,272,345 shares were added to the shares reserved for issuance under the 2020 Plan in the first of these annual increases.

As of June 30, 2021, 4,630,413 shares remain available for future issuance under the 2020 Plan.

2020 Employee Stock Purchase Plan

In August 2020 the Company's board of directors adopted and the Company's stockholders approved the 2020 Employee Stock Purchase Plan (the "2020 ESPP"), which became effective September 16, 2020. The 2020 ESPP is administered by the Company's board of directors or by a committee appointed by the board of directors. The 2020 ESPP initially provides participating employees with the opportunity to purchase up to an aggregate of 488,414 shares of common stock. The number of shares of common stock reserved for issuance under the 2020 ESPP will automatically increase on the first day of each fiscal year, beginning with the fiscal year commencing on January 1, 2021 and continuing for each fiscal year until, and including the fiscal year commencing on, January 1, 2030, in an amount equal to the lowest of (1) 1,953,656 shares of common stock, (2) 1% of the shares of common stock outstanding on such date, and (3) an amount determined by the board of directors. As of June 30, 2021, no offering periods have commenced under the 2020 ESPP and 488,414 shares remain available for issuance.

Stock option valuation

The Company typically grants stock options at exercise prices deemed by the Board to be equal to the fair value of the common stock at the time of grant. In the periods prior to the IPO, the fair value of the common stock was determined by the Board at each measurement date based on a variety of different factors, including the results obtained from independent third-party appraisals, the Company's financial position and historical financial performance, the status of development of the Company's programs, the current climate in the marketplace, the illiquid nature of the common stock, the effect of the rights and preferences of the preferred stockholders, and the prospects of a liquidity event, among others. In the periods following the IPO, the fair value is determined based upon the quoted price of the Company's common stock on Nasdaq.

The fair value of stock option grants is estimated using the Black-Scholes option-pricing model. The Company historically has been a private company and lacks company-specific historical and implied volatility information. Therefore, it estimates its expected stock volatility based on the historical volatility of a publicly traded set of peer companies and expects to continue to do so until such time as it has adequate historical data regarding the volatility of its own traded stock price. For options with service-based vesting conditions, the expected term of the Company's stock options has been determined utilizing the "simplified" method for awards that qualify as "plain-vanilla" options. The risk-free interest rate is determined by reference to the U.S. Treasury yield curve in effect at the time of grant of the award for time periods approximately equal to the expected term of the award. Expected dividend yield is based on the fact that the Company has never paid cash dividends and does not expect to pay any cash dividends in the foreseeable future.

The assumptions that the Company used to determine the grant-date fair value of options granted were as follows:

	Six Months Ended June 30,	
	2021	2020
Expected volatility	74%	75%
Risk-free interest rate	0.88% — 1.17%	0.45% — 1.67%
Expected term (in years)	6	6
Expected dividend yield	—	—

Stock option activity

A summary of the Company's stock option activity and related information for the six months ended June 30, 2021 is as follows:

<u>(in thousands, except share and per share data)</u>	<u>Options</u>	<u>Weighted Average Exercise Price</u>	<u>Weighted Average Remaining Life (in years)</u>	<u>Aggregate Intrinsic Value</u>
Outstanding as of January 1, 2021	6,421,589	\$ 6.97	9.5	\$ 90,112
Granted	770,976	18.30		
Exercised	(21,251)	1.23		
Canceled	(10,664)			
Outstanding as of June 30, 2021	7,160,650	\$ 8.20	9.1	\$ 94,783
Options exercisable as of June 30, 2021	1,186,660	\$ 5.59	8.8	\$ 18,804
Options vested or expected to vest as of June 30, 2021	6,767,389	\$ 8.17	9.0	\$ 87,112

The weighted-average grant date fair value of the options granted during the six months ended June 30, 2021 and 2020 was \$11.78 and \$0.71 per share, respectively. As of June 30, 2021 there was \$22.7 million of unrecognized compensation expense, which the Company expects to recognize over a weighted-average period of 2.7 years. Additionally, as of June 30, 2021, the Company has unrecognized compensation cost related to unvested stock-based awards with performance-based vesting conditions for which performance has not been deemed probable of \$2.3 million.

Restricted stock units

A restricted stock unit ("RSU") represents the right to receive one share of common stock upon vesting of the RSU. The Company grants RSUs with service conditions that vest in four equal annual installments provided that the employee remains employed with the Company. The Company also grants RSUs with performance-based vesting conditions for which performance was not deemed probable at June 30, 2021. The fair value of each RSU is based on the closing price of the Company's common stock on the date of grant. A summary of the Company's RSU activity and related information for the 2020 Plan for the six months ended June 30, 2021:

	Number of Shares Underlying RSUs	Weighted Average Grant Date Fair Value
Issued and unvested as of January 1, 2021	403,355	\$ 23.60
Granted	145,550	17.89
Vested	—	
Forfeited	(440)	23.90
Issued and unvested as of June 30, 2021	548,465	\$ 22.14

As of June 30, 2021, there was \$7.7 million of unrecognized compensation costs related to unvested RSUs, which are expected to be recognized over a weighted-average period of 2.6 years. Additionally, as of June 30, 2021, the Company has unrecognized compensation cost of \$0.6 million related to unvested stock-based awards with performance-based vesting conditions for which performance has not been deemed probable.

Restricted common stock

During the year ended December 31, 2018, the Company granted restricted common stock with service-based vesting conditions. Shares of unvested restricted common stock may not be sold or transferred by the holder. These restrictions lapse according to the time-based vesting conditions of each award. The aggregate grant date fair value of these awards was immaterial. The following table summarizes the Company's restricted common stock award activity for the six months ended June 30, 2021:

	Number of Restricted Shares
Issued and unvested as of January 1, 2021	370,329
Vested	(134,516)
Forfeited	(26,246)
Issued and unvested as of June 30, 2021	209,567

The Company recorded stock-based compensation expense in the following expense categories of its statements of operations:

(in thousands)	Three Months Ended June 30,		Six Months Ended June 30,	
	2021	2020	2021	2020
Research and development	\$ 2,149	\$ 30	\$ 3,719	\$ 55
General and administrative	2,090	45	4,172	86
Total	\$ 4,239	\$ 75	\$ 7,891	\$ 141

In June, 2021, the Company entered into a severance agreement with its former chief scientific officer resulting in a modification to previously issued equity awards. This modification resulted in recognition of \$0.4 million of stock-based compensation expense for the three months ended June 30, 2021.

8. Net Loss per Share

Basic and diluted net loss per share was calculated as follows:

(in thousands, except share and per share data)	Three Months Ended June 30,		Six Months Ended June 30,	
	2021	2020	2021	2020
Numerator:				
Net loss	\$ (29,955)	\$ (8,982)	\$ (54,923)	\$ (16,868)
Denominator:				
Weighted-average common shares outstanding used in net loss per share—basic and diluted	51,216,254	2,710,556	50,349,193	2,675,260
Net loss per share—basic and diluted	\$ (0.58)	\$ (3.31)	\$ (1.09)	\$ (6.31)

The following potentially dilutive common stock equivalents, presented based on amounts outstanding at each period end, were excluded from the computation of diluted net loss per share for the periods indicated because including them would have had an anti-dilutive effect:

	June 30,	
	2021	2020
Options to purchase common stock	7,160,650	1,756,854
Unvested restricted common stock	209,567	511,405
Unvested restricted stock units	548,465	—
Convertible preferred stock (as converted to common stock)	—	10,401,270
Total	7,918,682	12,669,529

9. Commitments and Contingencies

Operating leases

In May 2019, the Company entered into a sublease agreement for laboratory and office space in Waltham, Massachusetts. The term of the sublease commenced on July 1, 2019 and expires on December 31, 2021.

In December 2020, the Company entered into a lease agreement, which was amended in January 2021, March 2021, and June 2021 (the "Lease"), pursuant to which the Company has agreed to lease approximately 68,187 square feet of additional office and laboratory space located in Waltham, Massachusetts (the "Premises"). The Lease will have a term of eight years and six months that will commence when the Premises are ready for occupancy. The Company's obligation for the payment of base rent for the Premises begins five months after the commencement date and will be \$0.4 million per month, increasing up to \$0.5 million during the term of the Lease. The Company has two options to extend the term of the Lease, each for a period of an additional five years. The term of this lease will commence on the earlier of the date the Company commences its business operations on the Premises or the date the agreed upon improvements to the Premises are substantially completed and necessary occupancy permits are obtained. The Company expects the Premises to be ready for occupancy in the second half of 2021.

Rent expense for the three and six months ended June 30, 2021 totaled \$0.2 million and \$0.4 million, respectively. Rent expense for the three and six months ended June 30, 2020 totaled \$0.2 million and \$0.4 million, respectively.

Summary of lease costs

The Company does not have any material finance leases as of June 30, 2021.

The components of lease cost under ASC 842 for the sublease were as follows:

(in thousands)	Three Months Ended June 30, 2021	Six Months Ended June 30, 2021
Operating lease cost	\$ 189	\$ 379
Short term lease cost	—	—
Variable lease cost	131	246
Total lease cost	\$ 320	\$ 625

Supplemental disclosure of cash flow information related to leases under ASC 842 for the sublease was as follows:

(in thousands)	Six Months Ended June 30, 2021	
Operating cash payments for operating leases	\$	394

The weighted-average remaining lease term and discount rate for the sublease were as follows:

(in thousands)	As of June 30, 2021	
Weighted-average remaining lease term - operating leases		0.5 years
Weighted-average discount rate - operating leases		3.25%

Future minimum lease payments under non-cancelable operating leases under ASC 842 for the sublease consisted of the following as of June 30, 2021:

Year Ending December 31,	(in thousands)	
2021 (remaining 6 months)	\$	406
Total future minimum lease payments		406
Less: imputed interest		(3)
Present value of lease liabilities	\$	403

Not included in the table above are the lease payments owing under the Lease the Company entered into in December 2020, pursuant to which the Company has agreed to lease approximately 68,187 square feet of additional office and laboratory space located in Waltham, Massachusetts. The Lease was executed, but not yet commenced as of June 30, 2021. The total expected commitment for this lease will be \$41.3 million.

Future minimum lease payments under non-cancelable operating leases under ASC 840 for the sublease and Lease consisted of the following as of December 31, 2020:

Year Ending December 31,	(in thousands)	
2021	\$	800
2022		4,096
2023		4,729
2024		4,871
2025		5,017
Thereafter		22,563
Total	\$	42,076

Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations.

The following discussion and analysis of our financial condition and results of operations should be read in conjunction with our condensed consolidated financial statements and related notes appearing elsewhere in this Quarterly Report on Form 10-Q, or this Quarterly Report, and our audited condensed consolidated financial statements and related notes for the year ended December 31, 2020, including in our Annual Report on Form 10-K filed with the Securities and Exchange Commission, or SEC, on March 4, 2021. Some of the information contained in this discussion and analysis or set forth elsewhere in this Quarterly Report, including information with respect to our plans and strategy for our business, includes forward-looking statements that involve risks and uncertainties. As a result of many factors, including those factors set forth in the "Risk Factors" section of this Quarterly Report, our actual results could differ materially from the results described in, or implied by, the forward-looking statements contained in the following discussion and analysis.

Overview

We are building a leading muscle disease company focused on advancing innovative life-transforming therapeutics for patients with genetically driven diseases. We are utilizing our proprietary FORCE platform to overcome the current limitations of muscle tissue delivery and advance modern oligonucleotide therapeutics for muscle diseases. Our proprietary FORCE platform therapeutics consist of an oligonucleotide payload that we rationally design to target the genetic basis of the disease we are seeking to treat, a clinically validated linker and an antigen-binding fragment, or Fab, that we attach to the payload using the linker. With our FORCE platform, we have the flexibility to deploy different types of oligonucleotide payloads with specific mechanisms of action that modify target functions. We leverage this modularity to focus on muscle diseases with high unmet need, with etiologic targets and with clear translational potential from preclinical disease models to well-defined clinical development and regulatory pathways. Using our FORCE platform, we are assembling a broad portfolio of muscle disease therapeutics, including our lead programs in myotonic dystrophy type 1, or DM1, Duchenne muscular dystrophy, or DMD, and facioscapulohumeral dystrophy, or FSHD. In addition, we plan to expand our portfolio through development efforts focused on rare skeletal muscle diseases, as well as cardiac and metabolic muscle diseases, including some with larger patient populations. We have identified lead product candidates for each of our lead programs that are in varying stages of preclinical development. We expect to submit investigational new drug, or IND, applications to the U.S. Food and Drug Administration, or FDA, for product candidates in each of our DM1, DMD and FSHD programs between the fourth quarter of 2021 and the fourth quarter of 2022.

We were incorporated and commenced operations in 2017. Since our incorporation, we have devoted substantially all of our financial resources and efforts to organizing and staffing our company, business planning, raising capital, conducting research activities and filing and prosecuting patent applications. We do not have any products for sale and have not generated any revenue from product sales or otherwise. To date, we have principally raised capital through sales of equity securities and borrowings under a loan and security agreement, or our loan agreement, with a commercial bank. On September 21, 2020, we completed our initial public offering, or IPO, pursuant to which we issued and sold 14,089,314 shares of our common stock, including 1,837,736 shares pursuant to the full exercise of the underwriters' option to purchase additional shares. We received net proceeds of \$246.4 million, after deducting underwriting discounts and commissions and offering expenses payable by us. On January 25, 2021, we completed a follow-on public offering, which we refer to as the January 2021 offering, pursuant to which we issued and sold 6,000,000 shares of our common stock. We received net proceeds of \$157.2 million, after deducting underwriting discounts and commissions and offering expenses payable by us.

Since our inception, we have incurred significant operating losses. Our ability to generate any product revenue or product revenue sufficient to achieve profitability will depend on the successful development and eventual commercialization of one or more product candidates. For the three and six months ended June 30, 2021 we reported net losses of \$30.0 million and \$54.9 million, respectively. For the three and six months ended June 30, 2020 we reported net losses of \$9.0 million and \$16.9 million, respectively. As of June 30, 2021, we had an accumulated deficit of \$134.1 million.

We expect to continue to incur significant expenses and increasing operating losses for the foreseeable future. We expect that our expenses and capital expenditure requirements will increase substantially in connection with our ongoing activities, particularly if and as we:

- continue our current lead programs in DM1, DMD and FSHD and conduct research programs in additional indications;
- advance our product candidates and any additional product candidates we identify through and into IND-enabling studies and clinical trials;
- expand the capabilities of our proprietary FORCE platform;
- seek marketing approvals for any product candidates that successfully complete complete clinical trials;

- obtain, expand, maintain, defend and enforce our intellectual property portfolio;
- hire additional clinical, regulatory and scientific personnel;
- establish manufacturing sources for any product candidate we may develop, including the Fab antibody, Val-cit linker and therapeutic payload that will comprise the product candidate, and secure supply chain capacity to provide sufficient quantities for preclinical and clinical development and commercial supply;
- ultimately establish a sales, marketing and distribution infrastructure to commercialize any products for which we may obtain marketing approval; and
- add operational, legal, compliance, financial and management information systems and personnel to support our research, product development and future commercialization efforts, as well as to support our operations as a public company.

We will not generate revenue from product sales unless and until we successfully complete clinical development and obtain regulatory approval for any product candidates we may develop. If we obtain regulatory approval for or otherwise commercialize any product candidates we may develop, we expect to incur significant expenses related to developing our commercialization capabilities to support product sales, marketing and distribution. Further, we expect to continue to incur additional costs associated with operating as a public company.

As a result, we will need substantial additional funding to support our continuing operations and pursue our growth strategy. Until such time as we can generate significant revenue from product sales, if ever, we expect to finance our operations through a combination of equity offerings, debt financings, collaborations, strategic alliances and licensing arrangements. We may be unable to raise additional funds or enter into such other agreements or arrangements when needed, on favorable terms, or at all. If we fail to raise capital or enter into such agreements or arrangements as and when needed, we may have to significantly delay, reduce or eliminate the development or future commercialization of one or more product candidates we may develop.

Because of the numerous risks and uncertainties associated with product development, we are unable to accurately predict the timing or amount of increased expenses or when, or if, we will be able to achieve profitability. Even if we do achieve profitability, we may not be able to sustain or increase profitability on a quarterly or annual basis. If we fail to become profitable or are unable to sustain profitability on a continuing basis, then we may be unable to raise capital, maintain our research and development efforts, expand our business or continue our operations at planned levels, and as a result we may be forced to substantially reduce or terminate our operations.

We believe that our existing cash, cash equivalents and marketable securities will enable us to fund our operating expenses and capital expenditure requirements into the second half of 2024. We have based our estimates as to how long we expect we will be able to fund our operations on assumptions that may prove to be wrong. We could use our available capital resources sooner than we currently expect, in which case we would be required to obtain additional financing, which may not be available to us on acceptable terms, or at all. Our failure to raise capital as and when needed would have a negative impact on our financial condition and our ability to pursue our business strategy. See “—Liquidity and capital resources” below.

Impact of COVID-19 on our business

The worldwide COVID-19 pandemic may affect our ability to initiate and complete preclinical studies, delay the initiation of our future clinical trials, disrupt regulatory activities or have other adverse effects on our business, results of operations, financial condition and prospects. In addition, the pandemic has caused substantial disruption in the financial markets and may adversely impact economies worldwide, both of which could adversely affect our business and operations.

To date, we have not experienced material business disruptions, including with our vendors, or impairments of any of our assets as a result of the pandemic. We are following, and plan to continue to follow, recommendations from federal, state and local governments regarding workplace policies, practices and procedures. In March 2020, we implemented a remote working policy for many of our employees and began restricting non-essential travel, and in May 2020, when Massachusetts began its staged reopening plan, we began implementing a return-to-work plan, in accordance with the guidance and requirements of federal and state authorities. We expect to continue to take actions as may be required or recommended by government authorities or as we determine are in the best interests of our employees and other business partners. We are continuing to monitor the potential impact of the pandemic, but we cannot be certain what the overall impact will be on our business, financial condition, results of operations and prospects.

Components of our results of operations

Revenue

We have not generated any revenue since our inception and do not expect to generate any revenue from the sale of products in the near future, if at all. If our development efforts are successful and we commercialize products, or if we enter into collaboration or license agreements with third parties, we may generate revenue in the future from product sales, as well as upfront, milestone and royalty payments from such collaboration or license agreements, or a combination thereof.

Research and development expenses

Research and development expenses consist primarily of costs incurred for our research activities and development of our programs. These expenses include:

- development and operation of our proprietary FORCE platform;
- employee-related expenses, including salaries, related benefits and stock-based compensation expense, for employees engaged in research and development functions;
- expenses incurred in connection with our research programs and development of our product candidates, including under agreements with third parties, such as consultants and contract research organizations, or CROs;
- the cost of laboratory supplies and acquiring, developing and manufacturing materials for use in our research and preclinical studies, including under agreements with third parties, such as consultants and contract manufacturing organizations, or CMOs;
- facilities, depreciation and other expenses, which include direct or allocated expenses for rent and maintenance of facilities and insurance; and
- costs related to compliance with regulatory requirements.

We expense research and development costs as incurred. Advance payments that we make for goods or services to be received in the future for use in research and development activities are recorded as prepaid expenses. The prepaid amounts are expensed as the related goods are delivered or the services are performed.

Our direct external research and development expenses consist of costs that include fees, reimbursed materials and other costs paid to consultants, contractors, CMOs and CROs in connection with our development and manufacturing activities. We do not allocate our research and development costs to specific programs or product candidates because costs are deployed across multiple programs and product candidates as well as our platform and, as such, are not separately classified.

Product candidates in later stages of clinical development generally have higher development costs than those in earlier stages of clinical development, primarily due to the increased size and duration of later-stage clinical trials. Accordingly, we expect that our research and development expenses will increase substantially in connection with our preclinical and clinical development activities in the future as we advance our program candidates into IND-enabling studies and clinical trials. At this time, we cannot accurately estimate or know the nature, timing and costs of the efforts that will be necessary to complete the preclinical and clinical development of any product candidates we may develop. The successful development of any product candidate is highly uncertain. This is due to the numerous risks and uncertainties associated with product development, including the following:

- the timing and progress of preclinical and clinical development activities;
- the number and scope of programs we decide to pursue and their regulatory paths to market;
- the need to raise funding to complete preclinical and clinical development of any product candidates we may develop;
- our ability to establish new licensing or collaboration arrangements and the progress of the development efforts of third parties with whom we may enter into such arrangements;
- our ability to maintain our current research and development programs and to establish new programs;
- the successful initiation, enrollment and completion of clinical trials with safety, tolerability and efficacy profiles that are satisfactory to the FDA or any comparable foreign regulatory authority;
- the receipt and related terms of regulatory approvals from applicable regulatory authorities for any product candidates;
- the availability of specialty raw materials for use in production of any product candidate we may develop;

- establishing agreements with third-party manufacturers for supply of product candidate components for our clinical trials;
- our ability to obtain and maintain patents, trade secret protection and regulatory exclusivity, both in the United States and internationally;
- our ability to protect our other rights in our intellectual property portfolio;
- commercializing product candidates, if and when approved, whether alone or in collaboration with others; and
- obtaining and maintaining third-party insurance coverage and adequate reimbursement for any approved products.

A change in the outcome of any of these variables with respect to the development of any product candidate we may develop could significantly change the costs and timing associated with the development of that product candidate. We may never succeed in obtaining regulatory approval for any product candidate we may develop.

General and administrative expenses

General and administrative expenses consist primarily of employee-related expenses, including salaries, related benefits and stock-based compensation, for employees in executive, finance, corporate and business development and administrative functions. General and administrative expenses also include legal fees relating to patent and corporate matters; professional fees for accounting, auditing, tax and administrative consulting services; insurance costs; administrative travel expenses; and facility-related expenses, which include direct depreciation costs and allocated expenses for rent and maintenance of facilities and other operating costs.

We anticipate that our general and administrative expenses will increase in the future as we increase our headcount to support our growth strategy and move into our new facility in the second half of 2021. We also anticipate that we will incur increased accounting, audit, legal, regulatory, compliance and director and officer insurance costs as well as investor and public relations expenses associated with our operations as a public company. In addition, if we obtain regulatory approval for a product candidate and do not enter into a third-party commercialization collaboration, we expect to incur significant expenses related to building a sales and marketing team to support product sales, marketing and distribution activities.

Interest income

Interest income consists of interest earned on our cash, cash equivalents and marketable securities. We expect our interest income to increase during 2021 due to our increased cash resources.

Interest expense

We did not incur any interest expense in the three or six months ended June 30, 2021. For the three and six months ended June 30, 2020, interest expense consisted of interest on borrowings under our loan agreement as well as amortization of debt discount and debt issuance costs. In October 2020, all outstanding borrowings under our loan agreement were repaid.

Change in success fee obligation

In February 2020, we entered into a loan agreement with Pacific Western Bank, or PWB, under which we borrowed an aggregate principal amount of \$10.0 million in the form of a term loan. Our loan agreement required us to pay a success fee upon the occurrence of a specified liquidity event, as defined in the agreement, which included our initial public offering. In September 2020, following the completion of our initial public offering, we paid the success fee of \$0.5 million, and in October 2020, we paid PWB \$10.0 million as repayment of the outstanding principal and less than \$0.1 million as accrued interest on the term loan. At inception of the loan agreement, this contingent obligation was considered immaterial. The fair value of the liability was remeasured at each reporting date, with changes in fair value recorded as a component of other income (expense) on the statement of operations.

Income taxes

Since our inception, we have not recorded any U.S. federal or state income tax benefits for the net losses we have incurred in any year or for our earned research and development tax credits, due to our uncertainty of realizing a benefit from those items. As of December 31, 2020, we had federal and state net operating loss carryforwards of \$69.1 million and \$68.9 million, respectively. The federal net operating loss carryforwards are indefinite lived and the state net operating loss carryforwards begin to expire in 2038. As of December 31, 2020, we also had federal and state research and development tax credit carryforwards \$0.8 million and \$0.4 million which begin to expire in 2039 and 2033, respectively.

Utilization of the net operating loss carryforwards and research and development tax credit carryforwards may be subject to a substantial annual limitation under Section 382 of the Internal Revenue Code of 1986 due to ownership changes that

have occurred previously or that could occur in the future. These ownership changes may limit the amount of carryforwards that can be utilized annually to offset future taxable income. In general, an ownership change, as defined by Section 382, results from transactions increasing the ownership of certain stockholders or public groups in the stock of a corporation by more than 50% over a three-year period. We completed a Section 382 study of transactions in our stock through December 31, 2020 and concluded that we have experienced ownership changes since inception that we believe under Section 382 and 383 of the Code will result in limitations on our ability to use certain pre-change NOLs and credits. In addition, we may experience subsequent ownership changes as a result of future equity offerings or other changes in the ownership of our stock, some of which are beyond our control. As a result, the amount of the NOLs and tax credit carryforwards presented in our financial statements could be limited. Similar provisions of state tax law may also apply to limit the use of accumulated state tax attributes.

Results of operations

Comparison of the three months ended June 30, 2021 and 2020

The following table summarizes our results of operations for the three months ended June 30, 2021 and 2020:

(in thousands)	Three Months Ended June 30,		Change
	2021	2020	
Operating expenses:			
Research and development	\$ 23,872	\$ 7,334	\$ 16,538
General and administrative	6,293	1,341	4,952
Total operating expenses	30,165	8,675	21,490
Loss from operations	(30,165)	(8,675)	(21,490)
Other income (expense):			
Interest income	210	—	210
Interest expense	—	(127)	127
Change in success fee obligation		(180)	180
Total other income (expense), net	210	(307)	517
Net loss	\$ (29,955)	\$ (8,982)	\$ (20,973)

Research and development expenses

The following table summarizes our research and development expenses for the three months ended June 30, 2021 and 2020:

(in thousands)	Three Months Ended June 30,		Change
	2021	2020	
Personnel-related	\$ 3,643	\$ 1,469	\$ 2,174
Stock-based compensation expense	2,148	30	2,118
Laboratory supplies and research materials	654	355	299
External manufacturing and research	15,242	4,666	10,576
Professional and consulting fees	774	340	434
Facility-related and other	1,411	474	937
Total research and development expenses	\$ 23,872	\$ 7,334	\$ 16,538

The increase in personnel-related costs and stock-based compensation expense was primarily due to increased headcount in our research and development function. The increase in facility-related and other expenses was primarily due to the increased costs of supporting a larger group of research and development personnel and their research efforts. The increase in external manufacturing and research costs was primarily due to the development of our manufacturing process, increased research activity, and the advancement of our programs and product candidates, including the initiation of IND-enabling studies.

General and administrative expenses

The following table summarizes our general and administrative expenses for the three months ended June 30, 2021 and 2020:

(in thousands)	Three Months Ended June 30,		Change
	2021	2020	
Personnel-related	\$ 1,586	\$ 511	\$ 1,075
Stock-based compensation expense	2,090	45	2,045
Professional and consulting fees	1,806	590	1,216
Facility-related and other	811	195	616
Total general and administrative expenses	\$ 6,293	\$ 1,341	\$ 4,952

The increase in personnel-related costs and stock-based compensation expense was primarily the result of an increase in headcount in our general and administrative function. Professional and consulting fees increased primarily due to accounting, audit and legal services as well as costs associated with ongoing business activities and the costs of operating as a public company.

Interest income

Interest income for the three months ended June 30, 2021 was \$0.2 million due to interest earned on invested cash balances. We did not earn interest income in the three months ended June 30, 2020.

Interest expense

We did not incur any interest expense in the three months ended June 30, 2021. Interest expense was \$0.2 million for the three months ended June 30, 2020, due to interest incurred on outstanding borrowings under our loan agreement, which was repaid in October 2020.

Change in success fee obligation

The fair value of the success fee obligation included in our loan agreement increased during three months ended June 30, 2020 by \$0.2 million.

Comparison of the six months ended June 30, 2021 and 2020

The following table summarizes our results of operations for the six months ended June 30, 2021 and 2020:

(in thousands)	Six Months Ended June 30,		Change
	2021	2020	
Operating expenses:			
Research and development	\$ 42,496	\$ 13,423	\$ 29,073
General and administrative	12,802	3,105	9,697
Total operating expenses	55,298	16,528	38,770
Loss from operations	(55,298)	(16,528)	(38,770)
Other income (expense):			
Interest income	375	24	351
Interest expense	—	(184)	184
Change in success fee obligation	—	(180)	180
Total other income (expense), net	375	(340)	715
Net loss	\$ (54,923)	\$ (16,868)	\$ (38,055)

Research and development expenses

The following table summarizes our research and development expenses for the six months ended June 30, 2021 and 2020:

(in thousands)	Six Months Ended June 30,		
	2021	2020	Change
Personnel-related	\$ 6,488	\$ 2,933	\$ 3,555
Stock-based compensation expense	3,719	55	3,664
Laboratory supplies and research materials	1,317	1,253	64
External manufacturing and research	27,278	7,681	19,597
Professional and consulting fees	1,231	527	704
Facility-related and other	2,463	974	1,489
Total research and development expenses	\$ 42,496	\$ 13,423	\$ 29,073

The increase in personnel-related costs and stock-based compensation expense was primarily due to increased headcount in our research and development function. The increase in facility-related and other expenses was primarily due to the increased costs of supporting a larger group of research and development personnel and their research efforts. The increase in external manufacturing and research costs was primarily due to the development of our manufacturing process, increased research activity, and the advancement of our programs and product candidates, including the initiation of IND-enabling studies.

General and administrative expenses

The following table summarizes our general and administrative expenses for the six months ended June 30, 2021 and 2020:

(in thousands)	Six Months Ended June 30,		
	2021	2020	Change
Personnel-related	\$ 2,957	\$ 1,087	\$ 1,870
Stock-based compensation expense	4,172	86	4,086
Professional and consulting fees	3,803	1,549	2,254
Facility-related and other	1,870	383	1,487
Total general and administrative expenses	\$ 12,802	\$ 3,105	\$ 9,697

The increase in personnel-related costs and stock-based compensation expense was primarily the result of an increase in headcount in our general and administrative function. Professional and consulting fees increased primarily due to accounting, audit and legal services as well as costs associated with ongoing business activities and the costs of operating as a public company. The increase in facility-related and other expenses was primarily due to the increased costs of supporting a larger group of general and administrative personnel.

Interest income

Interest income for the six months ended June 30, 2021 and 2020 was \$0.4 million and less than \$0.1 million, respectively, due to interest earned on invested cash balances.

Interest expense

We did not incur any interest expense in the six months ended June 30, 2021. Interest expense was \$0.2 million for the six months ended June 30, 2020, due to interest incurred on outstanding borrowings under our loan agreement, which was repaid in October 2020.

Change in success fee obligation

The fair value of the success fee obligation included in our loan agreement increased during six months ended June 30, 2020 by \$0.2 million.

Liquidity and capital resources

Sources of liquidity

Since our inception, we have incurred significant operating losses. We expect to incur significant expenses and operating losses for the foreseeable future as we support our continued research activities and development of our programs and platform. We have not yet commercialized any product candidates, and we do not expect to generate revenue from sales

of any product candidates for several years, if at all. To date, we have funded our operations primarily with proceeds from sales of equity securities, most recently, with proceeds from the sale of common stock in our IPO and the January 2021 offering, and borrowings under our loan agreement which we have since repaid. As of June 30, 2021 we had cash, cash equivalents and marketable securities of \$435.6 million.

Cash flows

The following table summarizes our sources and uses of cash for each of the periods presented:

(in thousands)	Six Months Ended June 30,	
	2021	2020
Net cash used in operating activities	\$ (64,543)	\$ (14,586)
Net cash used in investing activities	(134,809)	(282)
Net cash provided by financing activities	157,275	11,908
Net increase (decrease) in cash, cash equivalents and restricted cash	\$ (42,077)	\$ (2,960)

Operating activities

During the six months ended June 30, 2021, operating activities used \$64.5 million of cash, due to our net loss of \$54.9 million and net cash used by changes in our operating assets and liabilities of \$19.1 million, partially offset by non-cash charges of \$9.5 million. Net cash used by changes in our operating assets and liabilities consisted of a \$21.4 million increase in prepaid expenses and other current assets and a \$0.6 million increase in other assets, partially offset by a \$2.8 million increase in accounts payable and other liabilities. During the six months ended June 30, 2020, operating activities used \$14.6 million of cash, due to our net loss of \$16.9 million, partially offset by non-cash charges of \$0.6 million and net cash provided by changes in our operating assets and liabilities of \$1.6 million. Net cash provided by changes in our operating assets and liabilities primarily consisted of a \$1.7 million increase in accounts payable and other liabilities, partially offset by a \$0.1 million increase in prepaid expenses and other current assets. Changes in our operating assets and liabilities during these periods were generally due to growth in our business, the advancement of our research programs and the timing of vendor invoices and payments.

Investing activities

During the six months ended June 30, 2021, net cash used in investing activities was \$134.8 million due to the purchase of marketable securities of \$156.6 million and purchases of property and equipment of \$0.7 million, partially offset by maturities of marketable securities of \$22.5 million. During the six months ended June 30, 2020, net cash used in investing activities was \$0.3 million, due to purchases of property and equipment.

Financing activities

During the six months ended June 30, 2021, net cash provided by financing activities was \$157.3 million, consisting primarily of \$157.2 million in aggregate net proceeds from our follow-on offering completed in January 2021.

During the six months ended June 30, 2020, net cash provided by financing activities was \$11.9 million, consisting of \$9.9 million in net proceeds from issuance of debt and \$2.0 million in net proceeds from our issuance of Series A preferred stock.

Funding requirements

We expect our expenses to increase substantially in connection with our ongoing activities, particularly as we advance our research programs into preclinical and clinical development and incur additional costs associated with operating as a public company. The timing and amount of our operating expenditures will depend largely on:

- the identification of additional research programs and product candidates;
- the scope, progress, costs and results of preclinical and clinical development of any product candidates we may develop;
- the costs, timing and outcome of regulatory review of any product candidates we may develop;
- our decision to initiate a clinical trial, not to initiate a clinical trial or to terminate an existing clinical trial;
- changes in laws or regulations applicable to any product candidates we may develop, including but not limited to clinical trial requirements for approvals;
- the cost and timing of obtaining materials to produce adequate product supply for any preclinical or clinical development of any product candidate we may develop;

- the costs and timing of future commercialization activities, including product manufacturing, marketing, sales and distribution, for any product candidate we may develop for which we obtain marketing approval;
- the legal costs involved in prosecuting patent applications and enforcing patent claims and other intellectual property claims;
- additions or departures of key scientific or management personnel;
- our ability to establish and maintain collaborations on favorable terms, if at all, as well as the costs and timing of any collaboration, license or other arrangement, including the terms and timing of any milestone payments thereunder; and
- the costs of operating as a public company.

We believe that our existing cash, cash equivalents and marketable securities will enable us to fund our operating expenses and capital expenditure requirements into the second half of 2024. We expect that our liquidity will be sufficient to enable us to submit INDs for product candidates in each of our DM1, DMD and FSHD programs and achieve proof-of-concept data readouts in our DM1, DMD and FSHD programs. We have based these estimates on assumptions that may prove to be wrong, and we could exhaust our available capital resources sooner than we expect.

Until such time, if ever, as we can generate substantial product revenue, we expect to finance our cash needs through a combination of equity offerings, debt financings, collaborations, strategic alliances, and marketing, distribution or licensing arrangements with third parties. To the extent that we raise additional capital through the sale of equity or convertible debt securities, the ownership interest of our stockholders may be materially diluted, and the terms of such securities could include liquidation or other preferences that adversely affect the rights of holders of our common stock. Debt financing and preferred equity financing, if available, may involve agreements that include restrictive covenants that limit our ability to take specified actions, such as incurring additional debt, making capital expenditures or declaring dividends. If we raise funds through collaborations, strategic alliances or marketing, distribution or licensing arrangements with third parties, we may have to relinquish valuable rights to our technologies, future revenue streams, research programs or product candidates or grant licenses on terms that may not be favorable to us. We may be unable to raise additional funds or enter into such other agreements or arrangements when needed, on favorable terms, or at all. If we fail to raise capital or enter into such agreements other arrangements as and when needed, we may have to significantly delay, reduce or eliminate the development or future commercialization of one or more of our product candidates we may develop. See Item 1A. "Risk factors" in this Quarterly Report for additional risks associated with our substantial capital requirements.

Contractual obligations

We enter into contracts in the normal course of business with CROs, CMOs and other third parties for preclinical research studies, clinical trials and testing and manufacturing services. These contracts typically do not contain minimum purchase commitments and are generally cancelable by us upon written notice. Payments due upon cancellation consist of payments for services provided or expenses incurred, including noncancelable obligations of our service providers, up to the date of cancellation and in the case of certain arrangements with CROs and CMOs may include non-cancelable fees.

We have also entered into a license agreement with the University of Mons under which we are obligated to make specified milestone and royalty payments. The payment obligations under this agreement are contingent upon future events, such as our achievement of specified development, regulatory and commercial milestones, or generating product sales. We are unable to estimate the timing or likelihood of achieving these milestones or generating future product sales.

In May 2019, we entered into a sublease agreement for our laboratory and office space. The term of the sublease commenced on July 1, 2019 and expires on December 31, 2021. Our lease payments for the remainder of the term of the sublease will be \$0.1 million per month.

On December 4, 2020, we entered into a lease agreement for additional office and laboratory space, which was amended in January 2021, March 2021, and June 2021. The lease has a term of 8.5 years, with lease payments that begin five months after the premises are ready for occupancy and will be \$0.4 million per month, increasing up to \$0.5 million during the term of the lease. We have two options to extend the term of the lease, each for a period of an additional five years. The term of this lease will commence on the earlier of the date we commence our business operations on the premises or the date the agreed upon improvements to the premises are substantially completed and necessary occupancy permits are obtained. We expect the premises to be ready for occupancy and the lease term to commence in the second half of 2021.

Critical Accounting Policies and Significant Judgments and Estimates

Our condensed consolidated financial statements are prepared in accordance with generally accepted accounting principles in the United States. The preparation of our condensed consolidated financial statements and related disclosures requires us to make estimates and judgments that affect the reported amounts of assets, liabilities, costs and expenses, and the disclosure of contingent assets and liabilities in our financial statements. We base our estimates on historical experience, known trends and events and various other factors that we believe are reasonable under the circumstances, the results of which form the basis for making judgments about the carrying values of assets and liabilities that are not readily apparent from other sources. We evaluate our estimates and assumptions on an ongoing basis. Our actual results may differ from these estimates under different assumptions or conditions.

We define our critical accounting policies as those accounting principles generally accepted in the United States of America that are most critical to the judgments and estimates used in the preparation of our condensed consolidated financial statements. While our significant accounting policies are described in more detail in Note 2 “Summary of Significant Accounting Policies” to our condensed consolidated financial statements, we believe that our most critical accounting policies are those relating to accrued research and development expenses and stock-based compensation.

There have been no significant changes to our critical accounting policies from those described in our Annual Report on Form 10-K filed with the SEC on March 4, 2021.

Off-Balance Sheet Arrangements

We did not have during the periods presented, and we do not currently have, any off-balance sheet arrangements, as defined in the rules and regulations of the SEC.

Recently Issued and Adopted Accounting Pronouncements

There were no recently issued accounting pronouncements that are expected to impact our financial statements as of June 30, 2021.

Emerging growth company and smaller reporting company status

We are an “emerging growth company,” as defined in the Jumpstart Our Business Startups Act, or JOBS Act, and may take advantage of certain exemptions from various reporting requirements that are applicable to other public companies that are not emerging growth companies. We may take advantage of these exemptions until we are no longer an “emerging growth company.” Section 107 of the JOBS Act provides that an “emerging growth company” can take advantage of the extended transition period afforded by the JOBS Act for the implementation of new or revised accounting standards. We have elected to use the extended transition period for complying with new or revised accounting standards and as a result of this election, our financial statements may not be comparable to companies that comply with public company effective dates. We may take advantage of these exemptions until December 31, 2025 or until such earlier time that we are no longer an “emerging growth company.”

We are also a “smaller reporting company” as defined in Rule 12b-2 under the Exchange Act. We may continue to be a smaller reporting company if either (i) the market value of our shares held by non-affiliates is less than \$250 million or (ii) our annual revenue is less than \$100 million during the most recently completed fiscal year and the market value of our shares held by non-affiliates is less than \$700 million as of the last business day of our most recently completed second fiscal quarter. If we are a smaller reporting company at the time we cease to be an emerging growth company, we may continue to rely on exemptions from certain disclosure requirements that are available to smaller reporting companies.

Item 3. Quantitative and Qualitative Disclosures About Market Risk.

Not Required.

Item 4. Controls and Procedures.

Evaluation of Disclosure Controls and Procedures

Our management, under the supervision and with the participation of our Principal Executive Officer (our Chief Executive Officer) and Principal Financial Officer (our Vice President of Accounting and Administration, Treasurer), has evaluated the effectiveness of our disclosure controls and procedures as of June 30, 2021. The term “disclosure controls and procedures,” as defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934, as amended, or the Exchange Act, means controls and other procedures of a company that are designed to ensure that information required to be disclosed by a company in the reports that it files or submits under the Exchange Act is recorded, processed, summarized and reported, within the time periods specified in the SEC’s rules and forms. Disclosure controls and procedures include, without limitation, controls and procedures designed to ensure that information required to be disclosed by a company in the reports that it files or submits under the Exchange Act is accumulated and communicated

to the company's management, including its principal executive and principal financial officers, as appropriate to allow timely decisions regarding required disclosure. Management recognizes that any disclosure controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving their objectives, and management necessarily applies its judgment in evaluating the cost-benefit relationship of possible controls and procedures. Based on the evaluation of our disclosure controls and procedures as of June 30, 2021, our Principal Executive Officer and Principal Financial Officer have concluded that, as of such date, our disclosure controls and procedures were effective at the reasonable assurance level.

Changes in Internal Control over Financial Reporting

No change in our internal control over financial reporting (as defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act) occurred during the three months ended June 30, 2021 that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

PART II—OTHER INFORMATION

Item 1A. Risk Factors.

Our business is subject to numerous risks. You should carefully consider the risks and uncertainties described below together with all of the other information contained in this Quarterly Report on Form 10-Q, or this Quarterly Report, including our condensed consolidated financial statements and the related notes thereto in evaluating our company. The risks described below are not the only risks facing our company. The occurrence of any of the following risks, or of additional risks and uncertainties not presently known to us or that we currently believe to be immaterial, could cause our business, prospects, operating results and financial condition to suffer materially.

Risks related to our financial position and need for additional capital

We have incurred significant losses since our inception, have no products approved for sale and we expect to incur losses for the foreseeable future.

Since inception, we have incurred significant operating losses. Our net losses were \$16.9 million for the six months ended June 30, 2020 and \$54.9 million for the six months ended June 30, 2021. As of June 30, 2021, we had an accumulated deficit of \$134.1 million. To date, we have financed our operations with the proceeds raised from the sale of equity securities and borrowings under a loan and security agreement. We have devoted substantially all of our financial resources and efforts to research and development. We are still in the early stages of development of our programs and product candidates. Our product candidates are in varying stages of preclinical development and, have not commenced or completed clinical development of any product candidates. We expect to continue to incur significant expenses and operating losses for the foreseeable future. Our operating expenses and net losses may fluctuate significantly from quarter to quarter and year to year. We anticipate that our expenses will increase substantially if and as we:

- continue our current lead programs in DM1, DMD and FSHD and conduct research programs in additional indications;
- advance our product candidates and any additional product candidates we identify through and into investigational new drug; or IND, enabling studies and clinical trials;
- expand the capabilities of our proprietary FORCE platform;
- seek marketing approvals for any product candidates that successfully complete clinical trials;
- obtain, expand, maintain, defend and enforce our intellectual property portfolio;
- hire additional clinical, regulatory and scientific personnel;
- establish manufacturing sources for any product candidate we may develop, including the Fab antibody, Val-cit linker and therapeutic payload that will comprise the product candidate, and secure supply chain capacity to provide sufficient quantities for preclinical and clinical development and commercial supply;
- ultimately establish a sales, marketing and distribution infrastructure to commercialize any products for which we may obtain marketing approval; and
- add operational, legal, compliance, financial and management information systems and personnel to support our research, product development and future commercialization efforts, as well as to support our operations as a public company.

Even if we obtain regulatory approval of, and are successful in commercializing, one or more of any product candidates we may develop, we will continue to incur substantial research and development and other costs to develop and market additional product candidates. We may encounter unforeseen expenses, difficulties, complications, delays and other

unknown factors that may adversely affect our business. The size of our future net losses will depend, in part, on the rate of future growth of our expenses and our ability to generate revenue.

We have never generated revenue from product sales and may never achieve or maintain profitability.

Our product candidates are in varying stages of preclinical development, we have not advanced any product candidate into clinical development and we expect that it will be many years, if ever, before we have a product candidate ready for commercialization. To become and remain profitable, we must succeed in developing, obtaining the necessary regulatory approvals for and eventually commercializing a product or products that generate significant revenue. The ability to achieve this success will require us to be effective in a range of challenging activities, including:

- identifying product candidates and completing preclinical and clinical development of any product candidates we may identify;
- obtaining regulatory approval for any product candidates we may develop;
- manufacturing, marketing and selling any products for which we may obtain regulatory approval;
- achieving market acceptance of any products for which we obtain regulatory approval as a viable treatment option; and
- satisfying any post-marketing requirements.

We are only in the preliminary stages of most of these activities. We may never succeed in these activities and, even if we do, may never generate revenues that are significant enough to achieve profitability. Our product candidates are only in the preclinical stage of development. Because of the numerous risks and uncertainties associated with product development, we are unable to accurately estimate or know the nature, timing or costs of the efforts that will be necessary to complete the preclinical and clinical development and commercialization of any product candidate we may develop or when, or if, we will be able to generate revenues or achieve profitability.

If we are successful in obtaining regulatory approval to market one or more of our products, our revenue will be dependent, in part, upon the size of the markets in the territories for which we gain regulatory approval, the accepted price for the product, the ability to obtain coverage and reimbursement, and whether we own the commercial rights for that territory. If the number of our addressable patients is not as significant as we estimate, the indication approved by regulatory authorities is narrower than we expect, or the treatment population is narrowed by competition, physician choice or treatment guidelines, we may not generate significant revenue from sales of such products, even if approved.

Even if we do achieve profitability, we may not be able to sustain or increase profitability on a quarterly or annual basis. Our failure to become and remain profitable could impair our ability to raise capital, maintain our research and development efforts, expand our business or even continue our operations. A decline in the value of our company could also cause our stockholders to lose all or part of their investment.

We will need substantial additional funding. If we are unable to raise capital when needed, we could be forced to delay, reduce or eliminate our product development activities or commercialization efforts.

We expect our expenses to increase substantially in connection with our ongoing activities, particularly as we identify, continue the research and development of, initiate preclinical testing and clinical trials of, arrange for the manufacturing of, and potentially seek marketing approval for any product candidates we may develop. In addition, if we obtain marketing approval for any product candidates we may develop, we expect to incur significant commercialization expenses related to product manufacturing, marketing, sales and distribution. Furthermore, we expect to continue to incur additional costs associated with operating as a public company. Accordingly, we will need to obtain substantial additional funding in connection with our continuing operations. If we are unable to raise capital when needed, on attractive terms or at all, we may be forced to delay, reduce or eliminate our research and development programs or future commercialization efforts.

As of June 30, 2021, we had cash, cash equivalents and marketable securities of \$435.6 million. We believe that our existing cash, cash equivalents and marketable securities will enable us to fund our operating expenses and capital expenditure requirements into the second half of 2024. However, we have based this estimate on assumptions that may prove to be wrong, and our operating plan may change as a result of many factors currently unknown to us. As a result, we could deplete our capital resources sooner than we currently expect and could be forced to seek additional funding sooner than planned.

Our future capital requirements will depend on many factors, including:

- the identification of additional research programs and product candidates;

- the scope, progress, costs and results of preclinical and clinical development for any product candidates we may develop;
- the scope, costs, timing and outcome of regulatory review of any product candidates we may develop;
- the cost and timing of manufacturing activities;
- the costs and scope of the continued development of our FORCE platform;
- the costs and timing of preparing, filing and prosecuting applications for patents, maintaining and enforcing our intellectual property rights and defending any intellectual property-related claims, including claims of infringement, misappropriation or other violations of third-party intellectual property;
- the costs and timing of future commercialization activities, including product manufacturing, marketing, sales and distribution, for any product candidates we may develop for which we receive marketing approval;
- the costs of satisfying any post-marketing requirements;
- the revenue, if any, received from commercial sales of product candidates we may develop for which we receive marketing approval;
- the costs of operational, financial and management information systems and associated personnel;
- the associated costs in connection with any acquisition of in-licensed products, intellectual property and technologies; and
- the costs of operating as a public company.

Identifying potential product candidates and conducting preclinical testing and clinical trials is a time-consuming, expensive and uncertain process that takes years to complete, and we may never generate the necessary data or results required to obtain marketing approval and achieve product sales. In addition, even if we successfully identify and develop product candidates and those are approved, we may not achieve commercial success. Our commercial revenues, if any, may not be sufficient to sustain our operations. Accordingly, we will need to continue to rely on additional financing to achieve our business objectives. Adequate additional financing may not be available to us on acceptable terms, or at all.

Any additional fundraising efforts may divert our management from their day-to-day activities, which may adversely affect our operations. We cannot be certain that additional funding will be available on acceptable terms, when needed or at all. We have no committed source of additional capital and, if we are unable to raise additional capital in sufficient amounts, when needed or on terms acceptable to us, we may be required to significantly curtail, delay or discontinue one or more of our research or development programs or the commercialization of any product candidates we may develop, or be unable to expand our operations or otherwise capitalize on our business opportunities, as desired, which could materially affect our business, financial condition and results of operations. We could be required to seek collaborators for product candidates we may develop at an earlier stage than otherwise would be desirable or on terms that are less favorable than might otherwise be available or relinquish or license on unfavorable terms our rights to product candidates we may develop in markets where we otherwise would seek to pursue development or commercialization ourselves. Any of the above events could significantly harm our business, prospects, financial condition and results of operations and cause the price of our common stock to decline.

Raising additional capital may cause dilution to our stockholders, restrict our operations or require us to relinquish rights to our technologies or product candidates.

Until such time, if ever, as we can generate substantial product revenues, we expect to finance our cash needs through a combination of equity offerings, debt financings, collaborations, strategic alliances and/or licensing arrangements. We do not have any committed external source of funds. To the extent that we raise additional capital through the sale of equity or convertible debt securities, our stockholders' ownership interests will be diluted, and the terms of these securities may include liquidation or other preferences that adversely affect the rights of common stockholders. Any debt financing or preferred equity financing, if available, may involve, agreements that include covenants limiting or restricting our ability to take specific actions, such as incurring additional debt, selling or licensing our assets, making capital expenditures, declaring dividends or encumbering our assets to secure future indebtedness.

If we raise additional funds through collaborations, strategic alliances or licensing arrangements with third parties, we may have to relinquish valuable rights to our technologies, future revenue streams, research programs or product candidates or grant licenses on terms that may not be favorable to us. If we are unable to raise additional funds through equity or debt financings or other arrangements when needed or on terms acceptable to us, we may be required to delay, limit, reduce or eliminate some or all of our research and development programs, pipeline expansion or future commercialization efforts or grant rights to develop and market product candidates that we would otherwise prefer to develop and market ourselves.

Our limited operating history may make it difficult to evaluate the success of our business to date and to assess our future viability.

We commenced operations in 2017, and our operations to date have been limited to organizing and staffing our company, business planning, raising capital, conducting research activities and filing and prosecuting patent applications. Our product candidates are in varying stages of preclinical development, and their risk of failure is high. We have not yet demonstrated our ability to initiate or complete any clinical trials, obtain marketing approvals, manufacture product for clinical trials or on a commercial scale or arrange for a third party to do so on our behalf, or conduct sales, marketing and distribution activities necessary for successful product commercialization. Consequently, any predictions our stockholders make about our future success or viability may not be as accurate as they could be if we had a longer operating history or a history of successfully developing and commercializing products.

Our limited operating history may make it difficult to evaluate our technology and industry and predict our future performance. Our limited history as an operating company makes any assessment of our future success or viability subject to significant uncertainty. We will encounter risks and difficulties frequently experienced by early stage companies in rapidly evolving fields. If we do not address these risks successfully, our business will suffer.

In addition, as our business grows, we may encounter unforeseen expenses, restrictions, difficulties, complications, delays and other known and unknown factors. We will need to transition at some point from a company with a research focus to a company capable of conducting development activities and then to a company supporting commercial activities. We may not be successful in such transitions.

Our ability to utilize our net operating loss carryforwards and certain other tax attributes may be subject to limitations.

We have a history of cumulative losses and anticipate that we will continue to incur significant losses in the foreseeable future; thus, we do not know whether or when we will generate taxable income necessary to utilize our net operating losses, or NOLs, or research and development tax credit carryforwards. As of December 31, 2020, we had federal NOL carryforwards of \$69.1 million and state NOL carryforwards of \$68.9 million.

In general, under Sections 382 and 383 of the U.S. Internal Revenue Code of 1986, as amended, or the Code, and corresponding provisions of state law, a corporation that undergoes an “ownership change,” generally defined as a greater than 50 percentage point change (by value) in its equity ownership by certain stockholders over a three-year period, is subject to limitations on its ability to utilize its pre-change NOLs and pre-change research and development tax credit carryforwards to offset post-change income or taxes. We completed a Section 382 study of transactions in our stock through December 31, 2020 and concluded that we have experienced ownership changes since inception that we believe under Section 382 and 383 of the Code will result in limitation on our ability to use certain pre-change NOLs and credits. In addition, we may experience subsequent ownership changes as a result of future equity offerings or other changes in the ownership of our stock, some of which are beyond our control. As a result, if, and to the extent that, we earn net taxable income, our ability to use our NOL carryforwards and research and development tax credit carryforwards to offset such taxable income may be subject to limitations.

There is also a risk that due to regulatory changes, such as suspensions on the use of NOLs, or other unforeseen reasons, our existing NOLs could expire or otherwise become unavailable to offset future income tax liabilities. As described below in “Changes in tax laws or in their implementation or interpretation may adversely affect our business and financial condition,” legislation enacted in 2017, informally titled the Tax Cuts and Jobs Act, or the Tax Act, as amended by the Coronavirus Aid, Relief, and Economic Security Act, or CARES Act, includes changes to U.S. federal tax rates and the rules governing NOL carryforwards that may significantly impact our ability to utilize our NOLs to offset taxable income in the future. In addition, state NOLs generated in one state cannot be used to offset income generated in another state. For these reasons, even if we attain profitability, we may be unable to use a material portion of our NOLs and other tax attributes.

Risks related to discovery and development

We are very early in our development efforts. Our product candidates are in varying stages of preclinical development, and we have not advanced any product candidate into clinical development. As a result it will be years before we commercialize a product candidate, if ever. If we are unable to identify and advance product

candidates through preclinical studies and clinical trials, obtain marketing approval and ultimately commercialize them, or experience significant delays in doing so, our business will be materially harmed.

We are very early in our development efforts and have invested our research efforts to date in developing our platform and our lead programs. Our product candidates are in varying stages of preclinical development. We have not advanced any product candidates to clinical-stage development and may never do so. Our ability to generate product revenue, which we do not expect will occur for many years, if ever, will depend heavily on the successful development and eventual commercialization of our product candidates, which may never occur. We currently generate no revenue from sales of any product, and we may never be able to develop or commercialize a marketable product.

Commencing clinical trials in the United States is subject to acceptance by the U.S. Food and Drug Administration, or FDA, of an IND and finalizing the trial design based on discussions with the FDA and other regulatory authorities. In the event that the FDA requires us to complete additional preclinical studies or we are required to satisfy other FDA requests prior to commencing clinical trials, the start of our first clinical trials may be delayed. Even after we receive and incorporate guidance from these regulatory authorities, the FDA or other regulatory authorities could disagree that we have satisfied their requirements to commence any clinical trial or change their position on the acceptability of our trial design or the clinical endpoints selected, which may require us to complete additional preclinical studies or clinical trials or impose stricter approval conditions than we currently expect. There are equivalent processes and risks applicable to clinical trial applications in other countries, including countries in the European Union.

Commercialization of any product candidates we may develop will require preclinical and clinical development; regulatory and marketing approval in multiple jurisdictions, including by the FDA and the European Medicines Agency, or EMA; manufacturing supply, capacity and expertise; a commercial organization; and significant marketing efforts. The success of product candidates we may develop will depend on many factors, including the following:

- timely and successful completion of preclinical studies, including toxicology studies, biodistribution studies and minimally efficacious dose studies in animals, where applicable;
- effective INDs or comparable foreign applications that allow commencement of our planned clinical trials or future clinical trials for any product candidates we may develop;
- successful enrollment and completion of clinical trials, including under the FDA's current Good Clinical Practices, or cGCPs, current Good Laboratory Practices, or cGLPs, and any additional regulatory requirements from foreign regulatory authorities;
- positive results from our future clinical trials that support a finding of safety and effectiveness and an acceptable risk-benefit profile in the intended populations;
- receipt of marketing approvals from applicable regulatory authorities;
- establishment of arrangements through our own facilities or with third-party manufacturers for clinical supply and, where applicable, commercial manufacturing capabilities;
- establishment, maintenance, defense and enforcement of patent, trademark, trade secret and other intellectual property protection or regulatory exclusivity for any product candidates we may develop;
- commercial launch of any product candidates we may develop, if approved, whether alone or in collaboration with others;
- acceptance of the benefits and use of our product candidates we may develop, including method of administration, if and when approved, by patients, the medical community and third-party payers;
- effective competition with other therapies;
- maintenance of a continued acceptable safety, tolerability and efficacy profile of any product candidates we may develop following approval; and
- establishment and maintenance of healthcare coverage and adequate reimbursement by payers.

If we do not succeed in one or more of these factors in a timely manner or at all, we could experience significant delays or an inability to successfully commercialize any product candidates we may develop, which would materially harm our business. If we are unable to advance our product candidates to clinical development, obtain regulatory approval and ultimately commercialize our product candidates, or experience significant delays in doing so, our business will be materially harmed.

We may encounter substantial delays in commencement, enrollment or completion of our clinical trials or we may fail to demonstrate safety and efficacy to the satisfaction of applicable regulatory authorities, which could prevent us from commercializing any product candidates on a timely basis, if at all.

The risk of failure in developing product candidates is high. It is impossible to predict when or if any product candidate would prove effective or safe in humans or will receive regulatory approval. Before obtaining marketing approval from regulatory authorities for the sale of any product candidate, we must complete preclinical development and then conduct extensive clinical trials to demonstrate the safety and efficacy of product candidates in humans. We have not yet conducted a clinical trial of any product candidate. Clinical trials may fail to demonstrate that our product candidates are safe for humans and effective for indicated uses. Even if the clinical trials are successful, changes in marketing approval policies during the development period, changes in or the enactment or promulgation of additional statutes, regulations or guidance or changes in regulatory review for each submitted product application may cause delays in the approval or rejection of an application.

Before we can commence clinical trials for a product candidate, we must complete extensive preclinical testing and studies that support our INDs and other regulatory filings. We cannot be certain of the timely identification of a product candidate or the completion or outcome of our preclinical testing and studies and cannot predict whether the FDA will accept our proposed clinical programs or whether the outcome of our preclinical testing and studies will ultimately support the further development of any product candidates. Conducting preclinical testing is a lengthy, time-consuming and expensive process. The length of time may vary substantially according to the type, complexity and novelty of the program, and often can be several years or more per program. As a result, we cannot be sure that we will be able to submit INDs for our preclinical product candidates on the timelines we expect, if at all, and we cannot be sure that submission of INDs will result in the FDA allowing clinical trials to begin.

Furthermore, product candidates are subject to continued preclinical safety studies, which may be conducted concurrently with our clinical testing. The outcomes of these safety studies may delay the launch of or enrollment in future clinical trials and could impact our ability to continue to conduct our clinical trials.

Clinical testing is expensive, is difficult to design and implement, can take many years to complete and is uncertain as to outcome. We cannot guarantee that any clinical trials will be conducted as planned or completed on schedule, or at all. A failure of one or more clinical trials can occur at any stage of testing, which may result from a multitude of factors, including, but not limited to, flaws in trial design, dose selection issues, patient enrollment criteria and failure to demonstrate favorable safety or efficacy traits.

Other events that may prevent successful or timely completion of clinical development include:

- delays in reaching a consensus with regulatory authorities on trial design;
- delays in reaching agreement on acceptable terms with prospective clinical research organizations, or CLROs, and clinical trial sites;
- delays in opening clinical trial sites or obtaining required institutional review board, or IRB, or independent ethics committee approval, or the equivalent review groups for sites outside the United States, at each clinical trial site;
- imposition of a clinical hold by regulatory authorities as a result of a serious adverse event or after an inspection of our clinical trial operations or trial sites;
- negative or inconclusive results observed in clinical trials, including failure to demonstrate statistical significance, which could lead us, or cause regulators to require us, to conduct additional clinical trials or abandon product development programs;
- failure by us, any CLROs we engage or any other third parties to adhere to clinical trial requirements;
- failure to perform in accordance with the FDA's cGCPs;
- failure by physicians to adhere to delivery protocols leading to variable results;
- delays in the testing, validation, manufacturing and delivery of any product candidates we may develop to the clinical sites, including delays by third parties with whom we have contracted to perform certain of those functions;
- failure of our third-party contractors to comply with regulatory requirements or to meet their contractual obligations to us in a timely manner, or at all;
- delays in having patients complete participation in a trial or return for post-treatment follow-up;
- clinical trial sites or patients dropping out of a trial;

- selection of clinical endpoints that require prolonged periods of clinical observation or analysis of the resulting data;
- occurrence of serious adverse events associated with the product candidate that are viewed to outweigh its potential benefits;
- occurrence of serious adverse events associated with a product candidate in development by another company, which are viewed to outweigh its potential benefits, and which may negatively impact the perception of our product due to a similarity in technology or approach;
- changes in regulatory requirements and guidance that require amending or submitting new clinical protocols;
- changes in the legal or regulatory regimes domestically or internationally related to patient rights and privacy; or
- lack of adequate funding to continue the clinical trial.

Any inability to successfully complete preclinical studies and clinical trials could result in additional costs to us or impair our ability to generate revenues from product sales, regulatory and commercialization milestones and royalties. In addition, if we make manufacturing or formulation changes to any product candidates we may develop, we may need to conduct additional studies or trials to bridge our modified product candidates to earlier versions. Clinical trial delays also could shorten any periods during which we may have the exclusive right to commercialize any product candidates we may develop or allow our competitors to bring products to market before we do, which could impair our ability to successfully commercialize any product candidates we may develop and may harm our business, financial condition, results of operations and prospects.

Additionally, if the results of future clinical trials are inconclusive or if there are safety concerns or serious adverse events associated with any product candidates we may develop, we may:

- be delayed in obtaining marketing approval for product candidates, if at all;
- obtain approval for indications or patient populations that are not as broad as intended or desired;
- obtain approval with labeling that includes significant use or distribution restrictions or safety warnings;
- be subject to changes in the way the product is administered;
- be required to perform additional clinical trials to support approval or be subject to additional post-marketing testing requirements;
- have regulatory authorities withdraw, or suspend, their approval of the product or impose restrictions on its distribution in the form of a modified risk evaluation and mitigation strategy;
- be subject to the addition of labeling statements, such as warnings or contraindications;
- be sued; or
- experience damage to our reputation.

In particular, each of the conditions for which we plan to develop product candidates are rare genetic diseases with limited patient pools from which to draw for clinical trials. Further, because it can be difficult to diagnose these diseases in the absence of a genetic screen, we may have difficulty finding patients who are eligible to participate in our studies. The eligibility criteria of our clinical trials will further limit the pool of available study participants. Additionally, the process of finding and diagnosing patients may prove costly. The treating physicians in our clinical trials may also use their medical discretion in advising patients enrolled in our clinical trials to withdraw from our studies to try alternative therapies.

Our approach to the discovery and development of product candidates based on our FORCE platform is unproven, and we may not be successful in our efforts to identify, discover or develop potential product candidates.

The success of our business depends upon our ability to identify, develop and commercialize products based on our proprietary FORCE platform. Our therapeutics consist of three essential components: a proprietary Fab, a clinically validated linker and an oligonucleotide payload that we attach to our Fab using the linker. The Fab is engineered to bind to TFR1 to enable targeted delivery of nucleic acids and other molecules to skeletal, cardiac and smooth muscle.

All of our product candidates are still in varying stages of preclinical development and our approach to treating muscle disease is unproven. Our research programs may fail to identify additional product candidates for clinical development for a number of reasons. Our research methodology may be unsuccessful in identifying potential product candidates and our potential product candidates may be shown to have harmful side effects in preclinical *in vitro* experiments or animal model studies. In addition, our product candidates may not show promising signals of therapeutic effect in such experiments or

studies or they may have other characteristics that may make the product candidates impractical to manufacture, unmarketable or unlikely to receive marketing approval. Further, because all of our product candidates and programs are based on our FORCE platform, adverse developments with respect to one of our product candidates and programs may have a significant adverse impact on the actual or perceived likelihood of success and value of our other product candidates and programs.

In addition, we have not advanced any product candidates for clinical development or successfully developed any product candidate and our ability to identify and develop a product candidates may never materialize. The process by which we identify and discover product candidates may fail to yield product candidates for clinical development for a number of reasons, including those discussed in these risk factors. In addition:

- we may not be able to assemble sufficient resources to acquire or discover product candidates;
- competitors may develop alternatives that render our product candidates obsolete or less attractive;
- product candidates we develop may nevertheless be covered by third parties' patents or other intellectual property rights;
- product candidates may, on further study, be shown to have harmful side effects, toxicities or other characteristics that indicate that they are unlikely to be products that will receive marketing approval and achieve market acceptance;
- product candidates may not be effective in treating their targeted diseases or disorders;
- the market for a product candidate may change so that the continued development of that product candidate is no longer reasonable;
- a product candidate may not be capable of being produced in commercial quantities at an acceptable cost, or at all; or
- the regulatory pathway for a product candidate may be too complex and difficult to navigate successfully or economically.

If we are unable to identify and discover suitable product candidates for clinical development, this would adversely impact our business strategy and our financial position and share price and could potentially cause us to cease operations.

The outcome of preclinical studies and earlier-stage clinical trials may not be predictive of future results or the success of later preclinical studies and clinical trials.

We are in the early stage of research in the development of our platform, programs and product candidates, and have not advanced any product candidates for clinical development. . As a result, our belief in the capabilities of our platform is based on early research and preclinical studies. However, the results of preclinical studies may not be predictive of the results of later preclinical studies or clinical trials, and the results of any early-stage clinical trials may not be predictive of the results of later clinical trials. In addition, initial success in clinical trials may not be indicative of results obtained when such trials are completed. Moreover, preclinical and clinical data are often susceptible to varying interpretations and analyses, and many companies that have believed their product candidates performed satisfactorily in preclinical studies and clinical trials have nonetheless failed to obtain marketing approval of their products. Our future clinical trials may not ultimately be successful or support further clinical development of any product candidates we may develop. There is a high failure rate for product candidates proceeding through clinical trials. A number of companies in the pharmaceutical and biotechnology industries have suffered significant setbacks in clinical development even after achieving encouraging results in earlier studies. Any such setbacks in our clinical development could materially harm our business and results of operations.

If we experience delays or difficulties in the enrollment of patients in clinical trials, our ability to complete clinical trials may be adversely impacted.

Identifying and qualifying patients to participate in clinical trials of any product candidates we may develop is critical to our success. We may not be able to identify, recruit and enroll a sufficient number of patients, or those with required or desired characteristics, to complete our clinical trials in a timely manner. Patient enrollment and trial completion is affected by factors including:

- perceived risks and benefits of novel unproven approaches;
- size of the patient population, in particular for rare diseases such as the diseases on which we are initially focused, and process for identifying patients;
- design of the trial protocol;

- eligibility and exclusion criteria;
- perceived risks and benefits of the product candidate under study;
- availability of competing therapies and clinical trials;
- severity of the disease or disorder under investigation;
- proximity and availability of clinical trial sites for prospective patients;
- ability to obtain and maintain patient consent;
- risk that enrolled patients will drop out before completion of the trial;
- patient referral practices of physicians; and
- ability to monitor patients adequately during and after treatment.

Our inability to enroll a sufficient number of patients for clinical trials would result in significant delays and could require us to abandon one or more clinical trials altogether. Enrollment delays in these clinical trials may result in increased development costs for our product candidates, which would cause the value of our company to decline and limit our ability to obtain additional financing. Furthermore, we rely on and expect to continue to rely on contract research organizations, or CROs, CLROs and clinical trial sites to ensure the proper and timely conduct of our clinical trials and we will have limited influence over their performance.

Even if we are able to enroll a sufficient number of patients for our clinical trials, we may have difficulty maintaining patients in our clinical trials. Many of the patients who end up receiving placebo may perceive that they are not receiving the product candidate being tested, and they may decide to withdraw from our clinical trials to pursue other alternative therapies rather than continue the trial with the perception that they are receiving placebo. If we have difficulty enrolling or maintaining a sufficient number of patients to conduct our clinical trials, we may need to delay, limit or terminate clinical trials, any of which would harm our business, financial condition, results of operations and prospects.

If any product candidates we may develop cause undesirable side effects or have other unexpected adverse properties, such side effects or properties could delay or prevent regulatory approval, limit the commercial potential or result in significant negative consequences following any potential marketing approval.

We have not evaluated any product candidates in human clinical trials. It is impossible to predict when or if any product candidates we may develop will prove safe in humans. There can be no assurance that our technologies will not cause undesirable side effects.

Although other oligonucleotide therapeutics have received regulatory approval, our approach, which combines oligonucleotides with a Fab, is a novel approach to oligonucleotide therapy. As a result, there is uncertainty as to the safety profile of product candidates we may develop compared to more well-established classes of therapies, or oligonucleotide therapeutics on their own. Moreover, there have been only a limited number of clinical trials involving the use of conjugated oligonucleotide therapeutics and none involving the proprietary technology used in our FORCE platform.

If any product candidates we develop are associated with serious adverse events, undesirable side effects or unexpected characteristics, we may need to abandon their development or limit development to certain uses or subpopulations in which the serious adverse events, undesirable side effects or other characteristics are less prevalent, less severe or more acceptable from a risk-benefit perspective, any of which would have a material adverse effect on our business, financial condition, results of operations and prospects. Many product candidates that initially showed promise in early-stage testing have later been found to cause side effects that prevented further clinical development of the product candidates.

If in the future we are unable to demonstrate that such side effects were caused by factors others than our product candidates, the FDA, the EMA or other regulatory authorities could order us to cease further development of, or deny approval of, any product candidates for any or all targeted indications. Even if we are able to demonstrate that any future serious adverse events are not product-related and regulatory authorities do not order us to cease further development of our product candidates, such occurrences could affect patient recruitment or the ability of enrolled patients to complete the trial. Moreover, if we elect, or are required, to delay, suspend or terminate any clinical trial of any product candidate, the commercial prospects of such product candidates may be harmed and our ability to generate product revenues from any of these product candidates may be delayed or eliminated. Any of these occurrences may harm our ability to develop other product candidates, and may harm our business, financial condition and prospects significantly.

We may expend our limited resources to pursue a particular program, product candidate or indication and fail to capitalize on programs, product candidates or indications that may be more profitable or for which there is a greater likelihood of success.

Because we have limited financial and managerial resources, we focus on research programs and expect to focus on product candidates that we identify for specific indications among many potential options. As a result, we may forego or delay pursuit of opportunities with other product candidates or for other indications that later prove to have greater commercial potential, or we may choose to focus our efforts and resources on a potential product candidate that ultimately proves to be unsuccessful. Our resource allocation decisions may cause us to fail to capitalize on viable commercial products or profitable market opportunities. Our spending on current and future research and development programs and product candidates for specific indications may not yield any commercially viable medicines. If we do not accurately evaluate the commercial potential or target market for a particular product candidate, we may relinquish valuable rights to that product candidate through collaboration, licensing or other royalty arrangements in cases in which it would have been more advantageous for us to retain sole development and commercialization rights to such product candidate. Any such event could have a material adverse effect on our business, financial condition, results of operations and prospects.

Clinical trial and product liability lawsuits against us could divert our resources, could cause us to incur substantial liabilities and could limit commercialization of any product candidates we may develop.

We will face an inherent risk of clinical trial and product liability exposure related to the testing of any product candidates we may develop in clinical trials, and we will face an even greater risk if we commercially sell any products that we may develop. While we currently have no product candidates in clinical trials or that have been approved for commercial sale, the future use of product candidates by us in clinical trials, and the sale of any approved products in the future, may expose us to liability claims. These claims might be made by patients that use the product, healthcare providers, pharmaceutical companies or others selling such products. If we cannot successfully defend ourselves against claims that our product candidates or products caused injuries, we will incur substantial liabilities. Regardless of merit or eventual outcome, liability claims may result in:

- decreased demand for any product candidates we may develop;
- injury to our reputation and significant negative media attention;
- withdrawal of clinical trial participants;
- significant costs to defend any related litigation;
- substantial monetary awards to trial participants or patients;
- loss of revenue;
- reduced resources of our management to pursue our business strategy; and
- the inability to commercialize any product candidates we may develop.

We will need to increase our insurance coverage if we commence clinical trials or if we commence commercialization of any product candidates. Insurance coverage is increasingly expensive. We may not be able to maintain insurance coverage at a reasonable cost or in an amount adequate to satisfy any liability that may arise. If a successful clinical trial or product liability claim or series of claims is brought against us for uninsured liabilities or in excess of insured liabilities, our assets may not be sufficient to cover such claims and our business operations could be impaired.

Risks related to our dependence on third parties

We rely, and expect to continue to rely, on third parties to conduct some or all aspects of our product manufacturing, research and preclinical and clinical testing, and these third parties may not perform satisfactorily.

We do not expect to independently conduct all aspects of our product manufacturing, research and preclinical and clinical testing. We currently rely, and expect to continue to rely, on third parties with respect to many of these items, including contract manufacturing organizations, or CMOs, for the manufacturing of any product candidates we test in preclinical or clinical development, as well as CROs for the conduct of our animal testing and research and CLROs for the conduct of our planned clinical trials. Any of these third parties may terminate their engagements with us at any time. If we need to enter into alternative arrangements, it could delay our product development activities.

Our reliance on these third parties for research and development activities will reduce our control over these activities but will not relieve us of our responsibility to ensure compliance with all required regulations and study protocols. For example, for product candidates that we develop and commercialize on our own, we will remain responsible for ensuring

that each of our IND-enabling studies and clinical trials are conducted in accordance with the study plan and protocols. Moreover, the FDA requires us to comply with cGCPs for conducting, recording and reporting the results of clinical trials to assure that data and reported results are credible and accurate and that the rights, integrity and confidentiality of trial participants are protected. We also are required to register ongoing clinical trials and post the results of completed clinical trials on a government-sponsored database, ClinicalTrials.gov, within specified timeframes. Failure to do so can result in fines, adverse publicity and civil and criminal sanctions. If we or any of our CLROs or other third parties, including trial sites, fail to comply with applicable cGCPs, the clinical data generated in our clinical trials may be deemed unreliable and the FDA, EMA or comparable foreign regulatory authorities may require us to perform additional clinical trials before approving our marketing applications. We cannot assure you that upon inspection by a given regulatory authority, such regulatory authority will determine that any of our clinical trials complies with cGCP regulations. In addition, our clinical trials must be conducted with product produced under conditions that comply with the FDA's current Good Manufacturing Practices. Our failure to comply with these regulations may require us to repeat clinical trials, which would delay the regulatory approval process.

Although we intend to design the clinical trials for any product candidates we may develop, CLROs will conduct some or all of the clinical trials. As a result, many important aspects of our development programs, including their conduct and timing, will be outside of our direct control. Our reliance on third parties to conduct future preclinical studies and clinical trials will also result in less direct control over the management of data developed through preclinical studies and clinical trials than would be the case if we were relying entirely upon our own staff. Communicating with outside parties can also be challenging, potentially leading to mistakes as well as difficulties in coordinating activities. Outside parties may:

- have staffing difficulties;
- fail to comply with contractual obligations;
- experience regulatory compliance issues;
- undergo changes in priorities or become financially distressed; or
- form relationships with other entities, some of which may be our competitors.

These factors may materially adversely affect the willingness or ability of third parties to conduct our preclinical studies and clinical trials and may subject us to unexpected cost increases that are beyond our control. In addition, any third parties conducting our clinical trials will not be our employees, and except for remedies available to us under our agreements with such third parties, we cannot control whether or not they devote sufficient time and resources to our clinical programs. If the CROs, CLROs and other third parties do not perform preclinical studies and future clinical trials in a satisfactory manner, if the quality or accuracy of the clinical data they obtain is compromised due to the failure to adhere to our clinical protocols, or if they breach their obligations to us or fail to comply with regulatory requirements, the development, regulatory approval and commercialization of any product candidates we may develop may be delayed, we may not be able to obtain regulatory approval and commercialize our product candidates or our development programs may be materially and irreversibly harmed. If we are unable to rely on preclinical and clinical data collected by our CROs, CLROs and other third parties, we could be required to repeat, extend the duration of or increase the size of any preclinical studies or clinical trials we conduct and this could significantly delay commercialization and require greater expenditures.

If third parties do not successfully carry out their contractual duties, meet expected deadlines or conduct our studies in accordance with regulatory requirements or our stated study plans and protocols, we will not be able to complete, or may be delayed in completing, the preclinical studies and clinical trials required to support future IND submissions and approval of any product candidates we may develop.

We currently depend on a small number of third-party suppliers for the manufacture of Fabs, the linker and oligonucleotide payloads. The loss of these or future third-party suppliers, or their inability provide us with sufficient supply, could harm our business.

We do not own or operate manufacturing facilities and have no current plans to develop our own clinical or commercial-scale manufacturing capabilities. We rely on a small number of third-party suppliers for the manufacture of the Fabs, linker and oligonucleotide payloads. We expect to continue to depend on third-party suppliers for the manufacture of any product candidates that we evaluate in preclinical studies and clinical trials, as well as for commercial manufacture if those product candidates receive marketing approval. The facilities used by third-party manufacturers to manufacture our product candidates must be approved by the FDA and any comparable foreign regulatory authority pursuant to inspections that will be conducted after we submit an NDA to the FDA or any comparable filing to a foreign regulatory authority. We do not control the manufacturing process of, and are completely dependent on, third-party manufacturers for compliance with cGMP requirements for manufacture of products. If these third-party manufacturers cannot successfully

manufacture material that conforms to our specifications and the strict regulatory requirements of the FDA or any comparable foreign regulatory authority, they will not be able to secure and/or maintain regulatory approval for their manufacturing facilities.

Any product candidate we may develop will consist of a proprietary Fab conjugated with the oligonucleotide therapy. Our Fab is manufactured by starting with cells which are stored in a cell bank. If we lose multiple cell banks, our manufacturing will be adversely impacted by the need to replace the cell banks.

In addition, we have no control over the ability of third-party manufacturers to maintain adequate quality control, quality assurance and qualified personnel. If the FDA or any comparable foreign regulatory authority does not approve these facilities for the manufacture of any product candidates we may develop or if it withdraws any such approval in the future, we may need to find alternative manufacturing facilities, which would significantly impact our ability to develop, obtain regulatory approval for or market any product candidates we may develop, if approved. Our failure, or the failure of our third-party manufacturers, to comply with applicable regulations could result in sanctions being imposed on us, including clinical holds, fines, injunctions, civil penalties, delays, suspension or withdrawal of approvals, seizures or recalls of product candidates or products, operating restrictions and criminal prosecutions, any of which could significantly and adversely affect supplies of our product candidates.

We may also seek to eventually establish our own manufacturing facility for the long-term commercial supply of any product candidates we may develop and which receive regulatory approval. If we determine to establish our own manufacturing facility and manufacture our products on our own, we will need to obtain the resources and expertise in order to build such manufacturing capabilities and to conduct such manufacturing operations. In addition, our conduct of such manufacturing operations will be subject to the extensive regulations and operational risks to which our third-party suppliers are subject. If we are not successful in building these capabilities or complying with the regulations or otherwise operating our manufacturing function, our commercial supply could be disrupted and our business could be materially harmed.

Our or a third party's failure to execute on our manufacturing requirements on commercially reasonable terms and in compliance with cGMP could adversely affect our business in a number of ways, including:

- an inability to initiate preclinical studies or clinical trials of product candidates;
- delays in submitting regulatory applications, or receiving marketing approvals, for product candidates;
- subjecting third-party manufacturing facilities or our manufacturing facilities to additional inspections by regulatory authorities;
- requirements to cease development or to recall batches of product candidates; and
- in the event of approval to market and commercialize any product, an inability to meet commercial demands for the product.

We are party to manufacturing agreements with a number of third-party manufacturers. We may be unable to maintain these agreements or establish any additional agreements with third-party manufacturers or to do so on acceptable terms. Even if we are able to maintain or establish agreements with third-party manufacturers, reliance on third-party manufacturers entails additional risks, including:

- failure of third-party manufacturers to comply with regulatory requirements and maintain quality assurance;
- breach of the manufacturing agreement by the third party;
- failure to manufacture according to our specifications;
- failure to manufacture according to our schedule or at all;
- misappropriation of our proprietary information, including our trade secrets and know-how; and
- termination or nonrenewal of the agreement by the third party at a time that is costly or inconvenient for us.

We may compete with third parties for access to manufacturing facilities. There are a limited number of manufacturers that operate under cGMP regulations and that might be capable of manufacturing for us.

We do not currently have arrangements in place for redundant supply or a second source for all required raw materials. If our existing or future third-party manufacturers cannot perform as agreed, we may be required to replace such manufacturers and we may be unable to replace them on a timely basis or at all.

Additionally, if supply from one approved manufacturer is interrupted, there could be a significant disruption in supply. An alternative manufacturer would need to be qualified through a biologics license application, or BLA, supplement which could result in further delay. The regulatory agencies may also require additional studies or trials if a new manufacturer is relied upon for commercial production. Switching manufacturers may involve substantial costs and is likely to result in a delay in our desired clinical and commercial timelines.

These factors could cause the delay of clinical trials, regulatory submissions, required approvals or commercialization of our product candidates, cause us to incur higher costs and prevent us from commercializing our products successfully. Furthermore, if our suppliers fail to meet contractual requirements, and we are unable to secure one or more replacement suppliers capable of production at a substantially equivalent cost, our clinical trials may be delayed or we could lose potential revenue.

Our current and anticipated future dependence upon third parties for the manufacture of any product candidates we develop may adversely affect our development programs and our ability to commercialize any products that receive marketing approval on a timely and competitive basis.

We may from time to time be dependent on single-source suppliers for some of the components and materials used in the product candidates we may develop.

We may from time to time depend on single-source suppliers for some of the components and materials used in any product candidate we may develop. For instance, we currently use a single supplier for each of our Fab, linker and payloads. We cannot ensure that these suppliers or service providers will remain in business, have sufficient capacity or supply to meet our needs or that they will not be purchased by one of our competitors or another company that is not interested in continuing to work with us. Our use of single-source suppliers of raw materials, components, key processes and finished goods could expose us to several risks, including disruptions in supply, price increases or late deliveries. There are, in general, relatively few alternative sources of supply for substitute components. These vendors may be unable or unwilling to meet our future demands for our clinical trials or commercial sale. Establishing additional or replacement suppliers for these components, materials and processes could take a substantial amount of time and it may be difficult to establish replacement suppliers who meet regulatory requirements. Any disruption in supply from any single-source supplier or service provider could lead to supply delays or interruptions which would damage our business, financial condition, results of operations and prospects.

If we have to switch to a replacement supplier, the manufacture and delivery of any product candidates we may develop could be interrupted for an extended period, which could adversely affect our business. Establishing additional or replacement suppliers, if required, may not be accomplished quickly. If we are able to find a replacement supplier, the replacement supplier would need to be qualified and may require additional regulatory authority approval, which could result in further delay. While we seek to maintain adequate inventory of the single source components and materials used in our products, any interruption or delay in the supply of components or materials, or our inability to obtain components or materials from alternate sources at acceptable prices in a timely manner, could impair our ability to meet the demand for our investigational medicines.

We may enter into collaborations with third parties for the research, development and commercialization of certain of the product candidates we may develop. If any such collaborations are not successful, we may not be able to capitalize on the market potential of those product candidates.

We may seek third-party collaborators for the research, development and commercialization of certain of the product candidates we may develop. If we enter into any such arrangements with any third parties, we will likely have limited control over the amount and timing of resources that our collaborators dedicate to the development or commercialization of any product candidates we may seek to develop with them. Our ability to generate revenues from these arrangements will depend on our collaborators' abilities to successfully perform the functions assigned to them in these arrangements. We cannot predict the success of any collaboration that we enter into.

Collaborations involving our research programs or any product candidates we may develop pose numerous risks to us, including the following:

- collaborators would have significant discretion in determining the efforts and resources that they will apply to these collaborations;
- collaborators may not pursue development and commercialization of any product candidates we may develop or may elect not to continue or renew development or commercialization programs based on clinical trial results,

changes in the collaborator's strategic focus or available funding or external factors such as an acquisition that diverts resources or creates competing priorities;

- collaborators may delay programs, preclinical studies or clinical trials, provide insufficient funding for programs, preclinical studies or clinical trials, stop a preclinical study or clinical trial or abandon a product candidate, repeat or conduct new clinical trials or require a new formulation of a product candidate for clinical testing;
- collaborators could independently develop, or develop with third parties, products that compete directly or indirectly with any product candidates we may develop if the collaborators believe that competitive products are more likely to be successfully developed or can be commercialized under terms that are more economically attractive than ours;
- collaborators may be acquired by a third party having competitive products or different priorities, causing the emphasis on our product development or commercialization program under such collaboration to be delayed, diminished or terminated;
- collaborators with marketing and distribution rights to one or more products may not commit sufficient resources to the marketing and distribution of such product or products;
- collaborators may not properly obtain, maintain, enforce or defend our intellectual property or proprietary rights or may use our proprietary information in such a way as to invite litigation that could jeopardize or invalidate our proprietary information or expose us to potential litigation;
- disputes may arise between the collaborators and us that result in the delay or termination of the research, development, or commercialization of any product candidates we may develop or that result in costly litigation or arbitration that diverts management attention and resources;
- we may lose certain valuable rights under certain circumstances, including if we undergo a change of control;
- collaborations may be terminated and, if terminated, may result in a need for additional capital to pursue further development or commercialization of the applicable product candidates we may develop; and
- collaboration agreements may not lead to development or commercialization of product candidates in the most efficient manner or at all.

If our collaborations do not result in the successful development and commercialization of product candidates, or if one of our collaborators terminates its agreement with us, we may not receive any future research funding or milestone or royalty payments under the collaboration. If we do not receive the funding we expect under these agreements, our development of product candidates could be delayed, and we may need additional resources to develop product candidates. In addition, if one of our collaborators terminates its agreement with us, we may find it more difficult to find a suitable replacement collaborator or attract new collaborators, and our development programs may be delayed or the perception of us in the business and financial communities could be adversely affected. All of the risks relating to product development, regulatory approval and commercialization described in this "Risk Factors" section apply to the activities of our collaborators.

These relationships, or those like them, may require us to incur non-recurring and other charges, increase our near- and long-term expenditures, issue securities that dilute our existing stockholders, or disrupt our management and business. In addition, we could face significant competition in seeking appropriate collaborators, and the negotiation process is time-consuming and complex. Our ability to reach a definitive collaboration agreement will depend, among other things, upon our assessment of the collaborator's resources and expertise, the terms and conditions of the proposed collaboration, and the proposed collaborator's evaluation of several factors. If we license rights to any product candidates we or our collaborators may develop, we may not be able to realize the benefit of such transactions if we are unable to successfully integrate them with our existing operations and company culture.

If conflicts arise between us and our potential collaborators, these parties may act in a manner adverse to us and could limit our ability to implement our strategies.

If conflicts arise between us and our potential collaborators, the other party may act in a manner adverse to us and could limit our ability to implement our strategies. Our collaborators may develop, either alone or with others, products in related fields that are competitive with the product candidates we may develop that are the subject of these collaborations with us. Competing products, either developed by the collaborators or to which the collaborators have rights, may result in the withdrawal of support for our product candidates.

Some of our future collaborators could also become our competitors. Our collaborators could develop competing products, preclude us from entering into collaborations with their competitors, fail to obtain timely regulatory approvals, terminate their agreements with us prematurely, fail to devote sufficient resources to the development and

commercialization of products, or merge with or be acquired by a third party who may do any of these things. Any of these developments could harm our product development efforts.

If we are not able to establish collaborations on commercially reasonable terms, we may have to alter our development and commercialization plans.

Our research programs and product candidates and the potential commercialization of any product candidates we may develop will require substantial additional cash to fund expenses. For some of the product candidates we may develop, we may decide to collaborate with other pharmaceutical and biotechnology companies for the development and potential commercialization of those product candidates.

We face significant competition in seeking appropriate collaborators. Whether we reach a definitive agreement for a collaboration will depend, among other things, upon our assessment of the collaborator's resources and expertise, the terms and conditions of the proposed collaboration, and the proposed collaborator's evaluation of a number of factors. Those factors may include the design or results of clinical trials, the likelihood of approval by the FDA, the EMA or similar regulatory authorities outside the United States, the potential market for the subject product candidate, the costs and complexities of manufacturing and delivering such product candidate to patients, the potential of competing products, the existence of uncertainty with respect to our ownership of technology, which can exist if there is a challenge to such ownership without regard to the merits of the challenge, and industry and market conditions generally. The collaborator may also consider alternative product candidates or technologies for similar indications that may be available to collaborate on and whether such a collaboration could be more attractive than the one with us.

Collaborations are complex and time-consuming to negotiate and document. In addition, there have been a significant number of recent business combinations among large pharmaceutical companies that have resulted in a reduced number of potential future collaborators.

We may not be able to negotiate collaborations on a timely basis, on acceptable terms, or at all. If we are unable to do so, we may have to curtail the development of the product candidate for which we are seeking to collaborate, reduce or delay its development program or one or more of our other development programs, delay its potential commercialization, reduce the scope of any sales or marketing activities, or increase our own expenditures on the development of the product candidate.

We are dependent on third-party vendors to provide certain licenses, products and services and our business and operations, including clinical trials, could be disrupted by any problems with our significant third-party vendors.

We engage a number of third-party suppliers and service providers to supply critical goods and services, such as contract research services, contract manufacturing services and IT services. Disruptions to the business, financial stability or operations of these suppliers and service providers, including due to strikes, labor disputes or other disruptions to the workforce, for instance, if, as a result of COVID-19, employees are not able to come to work, or to their willingness and ability to produce or deliver such products or provide such services in a manner that satisfies the requirements put forth by the authorities, or in a manner that satisfies our own requirements, could affect our ability to develop and market our future product candidates on a timely basis. If these suppliers and service providers were unable or unwilling to continue to provide their products or services in the manner expected, or at all, we could encounter difficulty finding alternative suppliers. Even if we are able to secure appropriate alternative suppliers in a timely manner, costs for such products or services could increase significantly. Any of these events could adversely affect our results of operations and our business.

Risks related to commercialization

We face substantial competition, which may result in others discovering, developing or commercializing products before us or more successfully than we do.

The development and commercialization of new drug products is highly competitive. We face competition with respect to any product candidates that we may develop from major pharmaceutical companies, specialty pharmaceutical companies and biotechnology companies worldwide. There are a number of large pharmaceutical and biotechnology companies that currently market and sell products or are pursuing the development of products for the treatment of many of the disorders for which we are conducting research programs. Some of these competitive products and therapies are based on scientific approaches that are the same as or similar to our approach, and others are based on entirely different approaches. Potential competitors also include academic institutions, government agencies and other public and private research organizations that conduct research, seek patent protection and establish collaborative arrangements for research, development, manufacturing and commercialization.

Our commercial opportunity could be reduced or eliminated if our competitors develop and commercialize products that are safer, more effective, have fewer or less severe side effects, are more convenient or are less expensive than our product candidates or that would render any product candidates that we may develop obsolete or non-competitive. Our competitors also may obtain FDA or other regulatory approval for their products more rapidly than we may obtain approval for ours, which could result in our competitors establishing a strong market position before we are able to enter the market. Additionally, technologies developed by our competitors may render our product candidates uneconomical or obsolete, and we may not be successful in marketing any product candidates we may develop against competitors.

We expect to face competition from existing products and product candidates in development for each of our programs and product candidates. There are currently no approved therapies to treat the underlying cause of DM1. Product candidates currently in development to treat DM1 include: tideglusib, a GSK3- β inhibitor in late-stage clinical development by AMO Pharma Ltd. for the congenital phenotype of DM1; pitolisant, a selective histamine 3 receptor antagonist / inverse agonist currently being evaluated in a Phase 2 clinical trial for non-muscular symptoms of DM1 by Harmony Biosciences; AT466, which is an AAV-antisense candidate in preclinical development by Audentes Therapeutics, Inc.; an antibody linked siRNA in preclinical development by Avidity Biosciences, Inc.; gene editing treatments in preclinical development by Vertex Pharmaceuticals, Inc., or Vertex; an RNA-targeting gene therapy in preclinical development by Locana, Inc.; small molecules interacting with RNA in preclinical development by Expansion Therapeutics, Inc.; therapeutics based on biomolecular condensate biology in preclinical development by Dewpoint Therapeutics, Inc.; gene targeted chimera small molecules in preclinical development by Design Therapeutics; a peptide-linked PMO in preclinical development by Pepgen; a peptide-nucleic acid (PNA) in preclinical development by Neubase Therapeutics; and antisense oligonucleotides and siRNA candidates by Triplet Therapeutics.

Currently, patients with DMD are treated with corticosteroids to manage the inflammatory component of the disease. EMFLAZA (deflazacort) is an FDA-approved corticosteroid marketed by PTC Therapeutics, Inc., or PTC. In addition, there are four FDA-approved exon skipping drugs: EXONDYS 51 (eteplirsen), VYONDYS 53 (golodirsen) and AMONDYS 45 (casimersen), which are naked PMOs approved for the treatment of DMD patients amenable to Exon 51, Exon 53 and Exon 45 skipping, respectively, and are marketed by Sarepta Therapeutics, Inc., or Sarepta, and VILTEPSO (vitrolarsen), a naked PMO approved for the treatment of DMD patients amenable to Exon 53 skipping, which is marketed by Nippon Shinyaku Co. Ltd. Companies focused on developing treatments for DMD that target dystrophin mechanisms, as does our DMD program, include Sarepta with SRP-5051, a peptide-linked PMO currently being evaluated in a Phase 2 clinical trial for patients amenable to Exon 51 skipping, Wave Life Sciences Ltd. with WVE-N531, a stereopure oligonucleotide currently being evaluated in a Phase 1 clinical trial for patients amenable to Exon 53 skipping, PTC with ataluren, a small molecule targeting nonsense mutations in a Phase 3 clinical trial, Entrada with endosomal escape vehicle technology which targets dystrophin production, and Avidity Biosciences, Inc., which is in preclinical development with an antibody oligonucleotide conjugate that targets dystrophin production. In addition, several companies are developing gene therapies to treat DMD, including Milo Biotechnology (AAV1-FS344), Pfizer Inc. (PF-06939926), Sarepta (SRP-9001 and Galgt2 gene therapy program), Solid Biosciences Inc. (SGT-001) and REGENXBIO Inc. Gene editing treatments that are in preclinical development are also being pursued by Vertex and Sarepta. We are also aware of several companies targeting non-dystrophin mechanisms for the treatment of DMD.

There are currently no therapies to treat the underlying cause of FSHD. Products currently in development to treat FSHD include: ARO-DUX4, an siRNA therapy in preclinical development by Arrowhead Pharmaceuticals, AOC FSHD, an antibody oligonucleotide conjugate in preclinical development by Avidity Biosciences, Inc., MC-DX4, a microRNA targeting therapy in preclinical development by miRecule, Inc., creatine monohydrate, a supplement that enhances muscle performance, which is being evaluated in a Phase 2 clinical trial by Murdoch Children's Research Institute, and losmapimod, a p38 MAPK inhibitor that may modulate DUX4 expression, which is being evaluated in a Phase 2 clinical trial by Fulcrum Therapeutics Inc.

We will also compete more generally with other companies developing alternative scientific and technological approaches, including other companies working to develop conjugates with oligonucleotides for extra-hepatic delivery, including Alnylam Pharmaceuticals, Aro Biotherapeutics, Arrowhead Therapeutics, Avidity Biosciences, Dicerna Pharmaceuticals, Inc., DTx Pharma, Ionis Pharmaceuticals, NeuBase Therapeutics, Inc. and Sarepta, as well as gene therapy and gene editing approaches.

Many of the companies against which we compete or against which we may compete in the future have significantly greater financial resources and expertise in research and development, manufacturing, preclinical testing, conducting clinical trials, obtaining regulatory approvals and marketing approved products than we do. Accordingly, our competitors may be more successful than us in research and development, manufacturing, preclinical testing, conducting clinical trials, obtaining approval for treatments and achieving widespread market acceptance, rendering our treatments obsolete or non-competitive.

Additionally, mergers and acquisitions in the pharmaceutical and biotechnology industries may result in even more resources being concentrated among a smaller number of our competitors. Smaller and other early-stage companies may also prove to be significant competitors, particularly through collaborative arrangements with large and established

companies. These third parties compete with us in recruiting and retaining qualified scientific and management personnel, establishing clinical trial sites and patient registration for clinical trials, as well as in acquiring technologies complementary to, or necessary for, our programs.

If we successfully obtain approval for any product candidate, we will face competition based on many different factors, including the safety and effectiveness of our products, the ease with which our products can be administered and the extent to which patients accept relatively new routes of administration, the timing and scope of regulatory approvals for these products, the availability and cost of manufacturing, marketing and sales capabilities, price, reimbursement coverage and patent position. Competing products could present superior treatment alternatives, including by being more effective, safer, more convenient, less expensive or marketed and sold more effectively than any products we may develop. Competitive products or technological approaches may make any products we develop, or our FORCE platform, obsolete or noncompetitive before we recover the expense of developing and commercializing our product candidates. If we are unable to compete effectively, our opportunity to generate revenue from the sale of our products we may develop, if approved, could be adversely affected.

Even if any product candidate that we may develop receives marketing approval, it may fail to achieve the degree of market acceptance by physicians, patients, third-party payers and others in the medical community necessary for commercial success.

If any product candidate we may develop receives marketing approval, it may nonetheless fail to gain sufficient market acceptance by physicians, patients, third-party payers and others in the medical community. Sales of medical products depend in part on the willingness of physicians to prescribe the treatment, which is likely to be based on a determination by these physicians that the products are safe, therapeutically effective and cost-effective. In addition, the inclusion or exclusion of products from treatment guidelines established by various physician groups and the viewpoints of influential physicians can affect the willingness of other physicians to prescribe the treatment. We cannot predict whether physicians, physicians' organizations, hospitals, other healthcare providers, government agencies or private insurers will determine that our product is safe, therapeutically effective and cost-effective as compared with competing treatments. Efforts to educate the medical community and third-party payers on the benefits of any product candidates we may develop may require significant resources and may not be successful. If any product candidates we may develop do not achieve an adequate level of acceptance, we may not generate significant product revenues and we may not become profitable. The degree of market acceptance of any product candidates we may develop, if approved for commercial sale, will depend on a number of factors, including:

- the efficacy and safety of such product candidates as demonstrated in clinical trials;
- the potential advantages and limitations compared to alternative treatments;
- the effectiveness of sales and marketing efforts;
- the cost of treatment in relation to alternative treatments;
- the clinical indications for which the product is approved;
- the convenience and ease of administration compared to alternative treatments;
- the willingness of the target patient population to try new therapies and of physicians to prescribe these therapies;
- the strength of marketing and distribution support;
- the timing of market introduction of competitive products;
- the availability of third-party coverage and adequate reimbursement;
- the prevalence and severity of any side effects; and
- any restrictions on the use of our products, if approved, together with other medications.

If the market opportunities for any product candidates we develop are smaller than we believe they are, our revenue may be adversely affected, and our business may suffer. Because the target patient populations of our programs are small, and the addressable patient population even smaller, we must be able to successfully identify patients and capture a significant market share to achieve profitability and growth.

We focus our research and product development on treatments for rare diseases. Given the small number of patients who have the diseases that we are targeting, it is critical to our ability to grow and become profitable that we continue to successfully identify patients with these rare diseases. Our projections of both the number of people who have these diseases, as well as the subset of people with these diseases who have the potential to benefit from treatment with any product candidates we may develop, are based on our beliefs and estimates. These estimates have been derived from a variety of sources, including the scientific literature, surveys of clinics, patient foundations or market research that we conducted, and may prove to be incorrect or contain errors. New studies may change the estimated incidence or prevalence of these diseases. The number of patients may turn out to be lower than expected. The effort to identify patients with diseases we seek to treat is in early stages, and we cannot accurately predict the number of patients for whom treatment might be possible. Additionally, the potentially addressable patient population for each of our product

candidates may be limited or may not be amenable to treatment with our product candidates, and new patients may become increasingly difficult to identify or gain access to, which would adversely affect our results of operations and our business. Further, even if we obtain significant market share for our product candidates, because the potential target populations are very small, we may never achieve profitability despite obtaining such significant market share.

Our target patient populations are relatively small, and there is currently no standard of care treatment directed at some of our target indications, such as FSHD. As a result, the pricing and reimbursement of any product candidates we may develop, if approved, is uncertain, but must be adequate to support commercial infrastructure. If we are unable to obtain adequate levels of reimbursement, our ability to successfully market and sell product candidates will be adversely affected.

The pricing, insurance coverage and reimbursement status of newly approved products is uncertain. Failure to obtain or maintain adequate coverage and reimbursement for our future product candidates, if approved, could limit our ability to market those products and decrease our ability to generate product revenue.

The initial target platforms in our pipeline are indications with small patient populations. For product candidates that are designed to treat smaller patient populations to be commercially viable, the reimbursement for such product candidates must be higher, on a relative basis, to account for the lack of volume. Accordingly, we will need to implement a coverage and reimbursement strategy for any approved product candidate that accounts for the smaller potential market size. If we are unable to establish or sustain coverage and adequate reimbursement for any future product candidates from third-party payers, the adoption of those product candidates and sales revenue will be adversely affected, which, in turn, could adversely affect the ability to market or sell those product candidates, if approved.

We expect that coverage and reimbursement by third-party payers will be essential for most patients to be able to afford these treatments. Accordingly, sales of our future product candidates will depend substantially, both domestically and internationally, on the extent to which the costs of our product candidates will be paid by health maintenance, managed care, pharmacy benefit and similar healthcare management organizations, or will be reimbursed by government authorities, private health coverage insurers and other third-party payers. Even if coverage is provided, the approved reimbursement amount may not be high enough to allow us to establish or maintain pricing sufficient to realize a sufficient return on our investment.

There is significant uncertainty related to the insurance coverage and reimbursement of newly approved products. In the United States, the principal decisions about reimbursement by government authorities for new products are typically made by the Centers for Medicare & Medicaid Services, or CMS, since CMS decides whether and to what extent a new product will be covered and reimbursed under Medicare. Private payers tend to follow CMS to a substantial degree. However, one payer's determination to provide coverage for a product does not assure that other payers will also provide coverage for the drug product. Further, a payer's decision to provide coverage for a drug product does not imply that an adequate reimbursement rate will be approved. Reimbursement agencies in the European Union may be more conservative than CMS.

Outside the United States, international operations are generally subject to extensive governmental price controls and other market regulations, and we believe the increasing emphasis on cost-containment initiatives in Europe, Canada and other countries has and will continue to put pressure on the pricing and usage of therapeutics such as any product candidates we may develop. In many countries, particularly the countries of the European Union, the prices of medical products are subject to varying price control mechanisms as part of national health systems. In these countries, pricing negotiations with governmental authorities can take considerable time after the receipt of marketing approval for a product. As a result, we might obtain marketing approval for a product in a particular country, but then be subject to price regulations that delay or might even prevent our commercial launch of the product, possibly for lengthy periods of time. To obtain reimbursement or pricing approval in some countries, we may be required to conduct a clinical trial that compares the cost-effectiveness of our product candidate to other available therapies. In general, the prices of products under such systems are substantially lower than in the United States. Other countries allow companies to fix their own prices for products but monitor and control company profits. Additional foreign price controls or other changes in pricing regulation could restrict the amount that we are able to charge for product candidates. Accordingly, in markets outside the United States, the reimbursement for any product candidates we may develop may be reduced compared with the United States and may be insufficient to generate commercially reasonable revenues and profits.

Moreover, increasing efforts by governmental and third-party payers, in the United States and internationally, to cap or reduce healthcare costs may cause such organizations to limit both coverage and level of reimbursement for new products approved and, as a result, they may not cover or provide adequate payment for any product candidates we may develop. We expect to experience pricing pressures in connection with the sale of any product candidates we may

develop due to the trend toward managed healthcare, the increasing influence of certain third-party payers, such as health maintenance organizations, and additional legislative changes. The downward pressure on healthcare costs in general, particularly prescription drugs and surgical procedures and other treatments, has become very intense. As a result, increasingly high barriers are being erected to the entry of new products into the healthcare market. There have been instances in which third-party payers have refused to reimburse treatments for patients for whom the treatment is indicated in the FDA-approved product label. Even if we are successful in obtaining FDA approvals to commercialize our product candidates, we cannot guarantee that we will be able to secure reimbursement for all patients for whom treatment with our product candidates is indicated.

In addition to CMS and private payers, professional organizations such as the American Medical Association, can influence decisions about reimbursement for new products by determining standards for care. In addition, many private payers contract with commercial vendors who sell software that provide guidelines that attempt to limit utilization of, and therefore reimbursement for, certain products deemed to provide limited benefit to existing alternatives. Such organizations may set guidelines that limit reimbursement or utilization of our product candidates. Even if favorable coverage and reimbursement status is attained for one or more product candidates for which we or our collaborators receive regulatory approval, less favorable coverage policies and reimbursement rates may be implemented in the future.

If we are unable to establish sales, marketing and distribution capabilities or enter into sales, marketing and distribution agreements with third parties, we may not be successful in commercializing any product candidates we may develop if and when they are approved.

We do not have a sales or marketing infrastructure and have no experience in the sale, marketing or distribution of pharmaceutical products. To achieve commercial success for any product for which we have obtained marketing approval, we will need to establish a sales, marketing and distribution organization, either ourselves or through collaborations or other arrangements with third parties.

In the future, we may build a sales and marketing infrastructure to market some of the product candidates we may develop if and when they are approved. There are risks involved with establishing our own sales, marketing and distribution capabilities. For example, recruiting and training a sales force is expensive and time-consuming and could delay any product launch. If the commercial launch of a product candidate for which we recruit a sales force and establish marketing capabilities is delayed or does not occur for any reason, we would have prematurely or unnecessarily incurred these commercialization expenses. These efforts may be costly, and our investment would be lost if we cannot retain or reposition our sales and marketing personnel.

Factors that may inhibit our efforts to commercialize our products on our own include:

- our inability to recruit, train and retain adequate numbers of effective sales, marketing, coverage or reimbursement, customer service, medical affairs and other support personnel;
- the inability of sales personnel to educate adequate numbers of physicians on the benefits of any future products;
- the inability of reimbursement professionals to negotiate arrangements for formulary access, reimbursement and other acceptance by payers;
- the inability to price our products at a sufficient price point to ensure an adequate and attractive level of profitability;
- restricted or closed distribution channels that make it difficult to distribute our products to segments of the patient population;
- the lack of complementary products to be offered by sales personnel, which may put us at a competitive disadvantage relative to companies with more extensive product lines; and
- unforeseen costs and expenses associated with creating an independent sales and marketing organization.

If we are unable to establish our own sales, marketing and distribution capabilities and we enter into arrangements with third parties to perform these services, our product revenues and our profitability, if any, are likely to be lower than if we were to market, sell and distribute any products that we develop ourselves. In addition, we may not be successful in entering into arrangements with third parties to sell, market and distribute any product candidates we may develop or may be unable to do so on terms that are acceptable to us. We likely will have little control over such third parties, and any of them may fail to devote the necessary resources and attention to sell and market our products effectively. If we do not establish sales, marketing and distribution capabilities successfully, either on our own or in collaboration with third parties, we will not be successful in commercializing any product candidates we may develop.

The biologic product candidates for which we intend to seek approval may face competition sooner than anticipated.

The Patient Protection and Affordable Care Act, as amended by the Health Care and Education Affordability Reconciliation Amendment, or the ACA, includes a subtitle called the Biologics Price Competition and Innovation Act of 2009, or BPCIA, which created an abbreviated approval pathway for biological products that are biosimilar to or interchangeable with an FDA-licensed reference biological product. Under the BPCIA, an application for a biosimilar product may not be submitted to the FDA until four years following the date that the reference product was first licensed by the FDA. In addition, the approval of a biosimilar product may not be made effective by the FDA until 12 years from the date on which the reference product was first licensed. During this 12-year period of exclusivity, another company may still market a competing version of the reference product if the FDA approves a full BLA for the competing product containing the sponsor's own preclinical data and data from adequate and well-controlled clinical trials to demonstrate the safety, purity and potency of their product. The law is complex and is still being interpreted and implemented by the FDA. As a result, its ultimate impact, implementation, and meaning are subject to uncertainty. While it is uncertain when such processes intended to implement BPCIA may be fully adopted by the FDA, any such processes could have an adverse effect on the future commercial prospects for our biological products.

There is a risk that any product candidates we may develop that are approved as a biological product under a BLA would not qualify for the 12-year period of exclusivity or that this exclusivity could be shortened due to congressional action or otherwise, or that the FDA will not consider any product candidates we may develop to be reference products for competing products, potentially creating the opportunity for generic competition sooner than anticipated. Other aspects of the BPCIA, some of which may impact the BPCIA exclusivity provisions, have also been the subject of recent litigation. Moreover, the extent to which a biosimilar, once approved, will be substituted for any one of our reference products in a way that is similar to traditional generic substitution for nonbiological products is not yet clear, and will depend on a number of marketplace and regulatory factors that are still developing.

Risks related to our intellectual property

Although we own and license a number of pending patent applications which have not yet issued as patents, we do not currently own any issued patents. We do, however, in-license two issued U.S. patents and one issued European patent relating to product candidates we may develop. If we or our licensors are unable to obtain, maintain and defend patent and other intellectual property protection for any product candidates or technology, or if the scope of the patent or other intellectual property protection obtained is not sufficiently broad, our competitors could develop and commercialize products and technology similar or identical to ours, and our ability to successfully develop and commercialize any product candidates we may develop or our technology may be adversely affected due to such competition.

Our success depends in large part on our and our licensors' ability to obtain and maintain patent and other intellectual property protection in the United States and other jurisdictions. We currently own and license patent applications relating to our FORCE platform technology, including our Fabs, oligonucleotide payloads and Fab-oligonucleotide conjugates, as well as aspects of our manufacturing and methods of treatment. We and our licensors have sought, and will seek, to protect our proprietary position by filing additional patent applications in the United States and abroad related to certain technologies and our platform that are important to our business. However, our patent portfolio is at an early stage and we currently do not own or exclusively license any issued patents in any jurisdiction other than two issued U.S. patents and one issued European patent which we exclusively license. Moreover, there can be no assurance as to whether or when our patent applications will issue as granted patents. Our ability to stop third parties from making, using, selling, marketing, offering to sell, importing and commercializing any product candidates we may develop and our technology is dependent upon the extent to which we have rights under valid and enforceable patents and other intellectual property that cover our platform and technology. If we are unable to secure, maintain, defend and enforce patents and other intellectual property with respect to any product candidates we may develop and technology, it would have a material adverse effect on our business, financial condition, results of operations and prospects.

Our pending Patent Cooperation Treaty, or PCT, patent applications are not eligible to become issued patents until, among other things, we file a national stage patent application within 30 to 32 months, depending on the jurisdiction, from such application's priority date in the jurisdictions in which we are seeking patent protection. Similarly, our pending provisional patent applications are not eligible to become issued patents until, among other things, we file a non-provisional patent application within 12 months of such provisional patent application's filing date. If we do not timely file such national stage patent applications or non-provisional patent applications, we may lose our priority date with respect to such PCT or provisional patent applications, respectively, and any patent protection on the inventions disclosed in such PCT or provisional patent applications, respectively. While we and our licensors intend to timely file national stage and non-provisional patent applications relating to our PCT and provisional patent applications, respectively, we cannot predict

whether any such patent applications will result in the issuance of patents. If we or our licensors do not successfully obtain issued patents, or, if the scope of any patent protection we or our licensors obtain is not sufficiently broad, we will be unable to prevent others from using any product candidates we may develop or our technology or from developing or commercializing technology and products similar or identical to ours or other competing products and technologies. Any failure to obtain or maintain patent protection with respect to our product candidates or our FORCE platform would have a material adverse effect on our business, financial condition, results of operations and prospects.

The patent prosecution process is expensive, time-consuming and complex, and we and our licensors may not be able to file, prosecute, maintain, defend, enforce or license all necessary or desirable patent applications at a reasonable cost or in a timely manner. We and our licensors may not be able to obtain, maintain or defend patents and patent applications due to the subject matter claimed in such patents and patent applications being in the public domain. It is also possible that we will fail to identify patentable aspects of our research and development output before it is too late to obtain patent protection. Although we enter into non-disclosure and confidentiality agreements with parties who have access to confidential or patentable aspects of our research and development output, such as our employees, corporate collaborators, outside scientific collaborators, contract manufacturers, consultants, advisors and other third parties, any of these parties may breach these agreements and disclose such output before a patent application is filed, thereby jeopardizing our ability to seek patent protection. Consequently, we would not be able to prevent any third party from using any of our technology that is in the public domain to compete with any product candidates we may develop.

The patent position of biotechnology and pharmaceutical companies generally is highly uncertain, involves complex legal and factual questions and has, in recent years, been the subject of much litigation. As a result, the issuance, scope, validity, enforceability and commercial value of patent rights are highly uncertain. Our pending and future owned and licensed patent applications may not result in patents being issued which protect our technology or product candidates, effectively prevent others from commercializing competitive technologies and product or otherwise provide any competitive advantage. In fact, patent applications may not issue as patents at all, and even if such patent applications do issue as patents, they may not issue in a form, or with a scope of claims, that will provide us with any meaningful protection, prevent others from competing with us or otherwise provide us with any competitive advantage. In addition, the scope of claims of an issued patent can be reinterpreted after issuance, and changes in either the patent laws or interpretation of the patent laws in the United States and other jurisdictions may diminish the value of our patent rights or narrow the scope of our patent protection. Furthermore, our competitors or other third parties may be able to circumvent our patents by developing similar or alternative technologies or products in a non-infringing manner.

Third parties have developed technologies that may be related or competitive to our own technologies and product candidates and may have filed or may file patent applications, or may have obtained issued patents, claiming inventions that may overlap or conflict with those claimed in our owned or licensed patent applications or issued patents. We may not be aware of all third-party intellectual property rights potentially relating to our current and future product candidates and technology. Publications of discoveries in the scientific literature often lag the actual discoveries, and patent applications in the United States and other jurisdictions are typically not published until 18 months after filing or, in some cases, not at all. Therefore, we cannot know for certain whether the inventors of our owned or licensed patents and patent applications were the first to make the inventions claimed in any owned or licensed patents or pending patent applications, or that we were the first to file for patent protection of such inventions. If a third party can establish that we or our licensors were not the first to make or the first to file for patent protection of such inventions, our owned or licensed patent applications may not issue as patents and even if issued, may be challenged and invalidated or ruled unenforceable.

The issuance of a patent is not conclusive as to its inventorship, scope, validity or enforceability, and our owned and licensed patents may be challenged in the courts or patent offices in the United States and other jurisdictions. For example, we may be subject to a third-party submission of prior art to the United States Patent and Trademark Office, or USPTO, challenging the validity of one or more claims of our owned or licensed patents. Such submissions may also be made prior to a patent's issuance, precluding the granting of a patent based on one of our owned or licensed pending patent applications. We may become involved in opposition, derivation, re-examination, *inter partes* review, post-grant review or interference proceedings and similar proceedings in foreign jurisdictions (for example, opposition proceedings) challenging our owned or licensed patent rights. In addition, a third party may claim that our owned or licensed patent rights are invalid or unenforceable in a litigation. An adverse result in any litigation or patent office proceeding could put one or more of our owned or licensed patents at risk of being invalidated, ruled unenforceable or interpreted narrowly and could allow third parties to commercialize products identical or similar to any product candidates we may develop and compete directly with us, without payment to us. Moreover, we, or one of our licensors, may have to participate in interference proceedings declared by the USPTO to determine priority of invention or in post-grant challenge proceedings, such as oppositions in a foreign patent office, that challenge priority of invention or other features of patentability. Such challenges and proceedings may result in loss of patent rights, exclusivity or in patent claims being narrowed, invalidated

or held unenforceable, which could limit our ability to stop others from using or commercializing similar or identical technology and products, or limit the duration of the patent protection of our technology and any product candidates we may develop. Such challenges and proceedings may also result in substantial cost and require significant time from our scientists and management, even if the eventual outcome is favorable to us. Moreover, there could be public announcements of the results of hearings, motions or other interim proceedings or developments related to such challenges and proceedings. If securities analysts or investors perceive these results to be negative, it could have a substantial adverse effect on the price of our common stock.

Furthermore, patents have a limited lifespan. In the United States, the expiration of a patent is generally 20 years from the earliest date of filing of the first non-provisional patent application to which the patent claims priority. Patent term adjustments and extensions may be available; however, the overall term of a patent, and the protection it affords, is limited. Given the amount of time required for the development, testing and regulatory review of new product candidates, patents protecting such product candidates might expire before or shortly after such product candidates are commercialized. As a result, our owned and licensed patent and other intellectual property rights may not provide us with sufficient rights to exclude others from commercializing products similar or identical to our technology and any product candidates we may develop. Any of the foregoing could have a material adverse effect on our competitive position, business, financial condition, results of operations and prospects.

Our rights to develop and commercialize any product candidates are subject and may in the future be subject, in part, to the terms and conditions of licenses granted to us by third parties. If we fail to comply with our obligations under our current or future intellectual property license agreements or otherwise experience disruptions to our business relationships with our current or any future licensors, we could lose intellectual property rights that are important to our business.

We are and expect to continue to be reliant upon third-party licensors for certain patent and other intellectual property rights that are important or necessary to the development of our technology and product candidates. For example, we rely on a license from the University of Mons, or UMONS, to certain patent rights and know-how of UMONS. Our license agreement with UMONS imposes, and we expect that any future license agreement will impose, specified diligence, milestone payment, royalty, commercialization, development and other obligations on us and require us to meet development timelines, or to exercise diligent or commercially reasonable efforts to develop and commercialize licensed products, in order to maintain the licenses.

Furthermore, our licensors have, or may in the future have, the right to terminate a license if we materially breach the agreement and fail to cure such breach within a specified period or in the event we undergo certain bankruptcy events. In spite of our best efforts, our current or any future licensors might conclude that we have materially breached our license agreements and might therefore terminate the license agreements. If our license agreements are terminated, we may lose our rights to develop and commercialize product candidates and technology, lose patent protection, experience significant delays in the development and commercialization of our product candidates and technology, and incur liability for damages. If these in-licenses are terminated, or if the underlying intellectual property fails to provide the intended exclusivity, our competitors or other third parties could have the freedom to seek regulatory approval of, and to market, products and technologies identical or competitive to ours and we may be required to cease our development and commercialization of certain of our product candidates and technology. In addition, we may seek to obtain additional licenses from our licensors and, in connection with obtaining such licenses, we may agree to amend our existing licenses in a manner that may be more favorable to the licensors, including by agreeing to terms that could enable third parties, including our competitors, to receive licenses to a portion of the intellectual property that is subject to our existing licenses and to compete with any product candidates we may develop and our technology. Any of the foregoing could have a material adverse effect on our competitive position, business, financial condition, results of operations and prospects. Disputes may arise regarding intellectual property subject to a licensing agreement, including:

- the scope of rights granted under the license agreement and other interpretation-related issues;
- our or our licensors' ability to obtain, maintain and defend intellectual property and to enforce intellectual property rights against third parties;
- the extent to which our technology, product candidates and processes infringe, misappropriate or otherwise violate the intellectual property of the licensor that is not subject to the license agreement;
- the sublicensing of patent and other intellectual property rights under our license agreements;
- our diligence, development, regulatory, commercialization, financial or other obligations under the license agreement and what activities satisfy those diligence obligations;
- the inventorship and ownership of inventions and know-how resulting from the joint creation or use of intellectual property by our current or future licensors and us and our partners; and
- the priority of invention of patented technology.

In addition, our license agreement with UMONS is, and future license agreements are likely to be, complex, and certain provisions in such agreements may be susceptible to multiple interpretations. The resolution of any contract interpretation disagreement that may arise could narrow what we believe to be the scope of our rights to the relevant intellectual property or technology, or increase what we believe to be our diligence, development, regulatory, commercialization, financial or other obligations under the relevant agreement. In addition, if disputes over intellectual property that we have licensed or any other dispute related to our license agreements prevent or impair our ability to maintain our current license agreements on commercially acceptable terms, we may be unable to successfully develop and commercialize the affected product candidates and technology. Any of the foregoing could have a material adverse effect on our business, financial condition, results of operations and prospects.

License agreements we may enter into in the future may be non-exclusive. Accordingly, third parties may also obtain non-exclusive licenses from such licensors with respect to the intellectual property licensed to us under such license agreements. Accordingly, these license agreements may not provide us with exclusive rights to use such licensed patent and other intellectual property rights, or may not provide us with exclusive rights to use such patent and other intellectual property rights in all relevant fields of use and in all territories in which we may wish to develop or commercialize our technology and any product candidates we may develop in the future.

Moreover, some of our in-licensed patent and other intellectual property rights may in the future be subject to third party interests such as co-ownership. If we are unable to obtain an exclusive license to such third-party co-owners' interest, in such patent and other intellectual property rights, such third-party co-owners may be able to license their rights to other third parties, including our competitors, and our competitors could market competing products and technology. We or our licensors may need the cooperation of any such co-owners of our licensed patent and other intellectual property rights in order to enforce them against third parties, and such cooperation may not be provided to us or our licensors.

Additionally, we may not have complete control over the preparation, filing, prosecution, maintenance, enforcement and defense of patents and patent applications that we license from third parties. It is possible that our licensors' filing, prosecution and maintenance of the licensed patents and patent applications, enforcement of patents against infringers or defense of such patents against challenges of validity or claims of enforceability may be less vigorous than if we had conducted them ourselves, and accordingly, we cannot be certain that these patents and patent applications will be prepared, filed, prosecuted, maintained, enforced and defended in a manner consistent with the best interests of our business. If our licensors fail to file, prosecute, maintain, enforce and defend such patents and patent applications, or lose rights to those patents or patent applications, the rights we have licensed may be reduced or eliminated, our right to develop and commercialize any of our technology and any product candidates we may develop that are the subject of such licensed rights could be adversely affected and we may not be able to prevent competitors or other third parties from making, using and selling competing products.

Furthermore, our owned and in-licensed patent rights may be subject to a reservation of rights by one or more third parties. When new technologies are developed with government funding, in order to secure ownership of patent rights related to the technologies, the recipient of such funding is required to comply with certain government regulations, including timely disclosing the inventions claimed in such patent rights to the U.S. government and timely electing title to such inventions. A failure to meet these obligations may lead to a loss of rights or the unenforceability of relevant patents or patent applications. In addition, the U.S. government may have certain rights in such patent rights, including a non-exclusive license authorizing the U.S. government to use the invention or to have others use the invention on its behalf. If the U.S. government decides to exercise these rights, it is not required to engage us as its contractor in connection with doing so. The U.S. government's rights may also permit it to disclose the funded inventions and technology, which may include our confidential information, to third parties and to exercise march-in rights to use or allow third parties to use the technology that was developed using U.S. government funding. The U.S. government may exercise its march-in rights if it determines that action is necessary because we or our licensors failed to achieve practical application of the U.S. government-funded technology, because action is necessary to alleviate health or safety needs, to meet requirements of federal regulations, or to give preference to U.S. industry. In addition, our rights in such U.S. government-funded inventions may be subject to certain requirements to manufacture any product candidates we may develop embodying such inventions in the United States. Any of the foregoing could harm our business, financial condition, results of operations and prospects significantly.

We may not be able to protect our intellectual property rights throughout the world.

Filing, prosecuting, maintaining, enforcing and defending patents and other intellectual property rights on our technology and any product candidates we may develop in all jurisdictions throughout the world would be prohibitively expensive, and accordingly, our intellectual property rights in some jurisdictions outside the United States could be less extensive than those in the United States. In some cases, we or our licensors may not be able to obtain patent or other intellectual property protection for certain technology and product candidates outside the United States. In addition, the laws of some

foreign jurisdictions do not protect intellectual property rights to the same extent as federal and state laws in the United States. Consequently, we and our licensors may not be able to obtain issued patents or other intellectual property rights covering any product candidates we may develop and our technology in all jurisdictions outside the United States and, as a result, may not be able to prevent third parties from practicing our and our licensors' inventions in all countries outside the United States, or from selling or importing products made using our inventions in and into the United States or other jurisdictions. Third parties may use our technologies in jurisdictions where we and our licensors have not pursued and obtained patent or other intellectual property protection to develop their own products and, further, may export otherwise infringing, misappropriating or violating products to territories where we have patent or other intellectual property protection, but enforcement is not as strong as that in the United States. These products may compete with any product candidates we may develop and our technology and our or our licensors' patents or other intellectual property rights may not be effective or sufficient to prevent them from competing.

Additionally, many companies have encountered significant problems in protecting and defending intellectual property rights in foreign jurisdictions. The legal systems of certain jurisdictions, particularly certain developing countries, do not favor the enforcement of patents, trade secrets and other intellectual property protection, particularly those relating to biotechnology products, which could make it difficult for us to stop the infringement, misappropriation or other violation of our patent and other intellectual property rights or marketing of competing products in violation of our intellectual property rights generally. For example, an April 2019 report from the Office of the United States Trade Representative identified a number of countries, including China, Russia, Argentina, Chile and India, where challenges to the procurement and enforcement of patent rights have been reported. Proceedings to enforce our or our licensors' patent and other intellectual property rights in foreign jurisdictions could result in substantial costs and divert our efforts and attention from other aspects of our business, could put our patent and other intellectual property rights at risk of being invalidated or interpreted narrowly and our patent applications at risk of not issuing and could provoke third parties to assert claims against us. We or our licensors may not prevail in any lawsuits that we or our licensors initiate and the damages or other remedies awarded, if any, may not be commercially meaningful. Accordingly, our efforts to enforce our intellectual property rights around the world may be inadequate to obtain a significant commercial advantage from the intellectual property that we develop or license.

Many jurisdictions have compulsory licensing laws under which a patent owner may be compelled to grant licenses to third parties. In addition, many jurisdictions limit the enforceability of patents against government agencies or government contractors. In these jurisdictions, the patent owner may have limited remedies, which could materially diminish the value of such patents. If we or any of our licensors is forced to grant a license to third parties with respect to any patents relevant to our business, our competitive position may be impaired, and our business, financial condition, results of operations and prospects may be adversely affected.

Obtaining and maintaining our patent protection depends on compliance with various procedural, document submission, fee payment and other requirements imposed by government patent agencies, and our patent protection could be reduced or eliminated for non-compliance with these requirements.

Periodic maintenance fees, renewal fees, annuity fees and various other government fees on patents and/or patent applications will be due to be paid to the USPTO and various government patent agencies outside of the United States over the lifetime of our owned or licensed patent rights. We rely on our outside counsel and other professionals or our licensing partners to pay these fees due to the USPTO and non-U.S. government patent agencies. The USPTO and various non-U.S. government patent agencies also require compliance with several procedural, documentary and other similar provisions during the patent application process. We rely on our outside counsel and other professionals to help us comply and we are also dependent on our licensors to take the necessary action to comply with these requirements with respect to our licensed intellectual property. In many cases, an inadvertent lapse can be cured by payment of a late fee or by other means in accordance with the applicable rules. There are situations, however, in which non-compliance can result in abandonment, loss of priority or lapse of the patent or patent application, resulting in partial or complete loss of patent rights in the relevant jurisdiction. In such an event, potential competitors might be able to enter the market and this circumstance could have a material adverse effect on our competitive position, business, financial condition, results of operations and prospects.

We may not be successful in obtaining necessary rights to product candidates we may develop through acquisitions and in-licenses.

We currently have rights to certain intellectual property through licenses from third parties. Because our product candidates may require the use of additional intellectual property rights held by third parties, the growth of our business likely will depend, in part, on our ability to acquire, in-license or use these intellectual property rights. In addition, with respect to any patent or other intellectual property rights that we co-own with third parties, we may require exclusive licenses to such co-owners' interest in such patent or other intellectual property rights. However, we may be unable to secure such licenses or otherwise acquire or in-license any intellectual property rights related to compositions, methods of

use, processes or other components from third parties that we identify as necessary for any product candidates we may develop and our technology on commercially reasonable terms, or at all. Even if we are able to in-license any such necessary intellectual property, it could be on non-exclusive terms, thereby giving our competitors and other third parties access to the same intellectual property licensed to us, and the applicable licensors could require us to make substantial licensing and royalty payments. The licensing or acquisition of third-party intellectual property rights is a competitive area, and several more established companies may pursue strategies to license or acquire third-party intellectual property rights that we may consider attractive or necessary. These established companies may have a competitive advantage over us due to their size, capital resources and greater clinical development and commercialization capabilities. In addition, companies that perceive us to be a competitor may be unwilling to assign or license rights to us. We also may be unable to license or acquire third-party intellectual property rights on terms that would allow us to make an appropriate return on our investment.

We sometimes collaborate with non-profit and academic institutions to accelerate our preclinical research or development under written agreements with these institutions. Typically, these institutions provide us with an option to negotiate a license to any of the institution's rights in technology resulting from the collaboration. Regardless of such option, we may be unable to negotiate a license within the specified timeframe or under terms that are acceptable to us. If we are unable to do so, the institution may offer the intellectual property rights to third parties, potentially blocking our ability to pursue our research program and develop and commercialize our product candidates.

If we are unable to successfully obtain rights to required third-party intellectual property rights or maintain the existing intellectual property rights we have licensed, we may be required to expend significant time and resources to redesign any product candidates we may develop or the methods for manufacturing them or to develop or license replacement technology, all of which may not be feasible on a technical or commercial basis. If we are unable to do so, we may be unable to develop or commercialize the affected product candidates, which could have a material adverse effect on our business, financial condition, results of operations and prospects.

Issued patents covering any product candidates we may develop could be found invalid or unenforceable if challenged in court or before administrative bodies in the United States or abroad.

Our owned and licensed patent rights may be subject to priority, validity, inventorship and enforceability disputes. If we or our licensors are unsuccessful in any of these proceedings, such patent rights may be narrowed, invalidated or held unenforceable, we may be required to obtain licenses from third parties, which may not be available on commercially reasonable terms or at all, or we may be required to cease the development, manufacture and commercialization of one or more of our product candidates. Any of the foregoing could have a material adverse effect on our business, financial condition, results of operations and prospects.

If we or one of our licensors initiate legal proceedings against a third party to enforce a patent covering any of any product candidates we may develop or our technology, the defendant could counterclaim that the patent covering the product candidate or technology is invalid or unenforceable. In patent litigation in the United States, defendant counterclaims alleging invalidity or unenforceability are commonplace. Grounds for a validity challenge could be an alleged failure to meet any of several statutory requirements, including lack of novelty, obviousness, lack of written description or non-enablement. Grounds for an unenforceability assertion could be an allegation that someone connected with prosecution of the patent withheld information material to patentability from the USPTO, or made a misleading statement, during prosecution. Third parties also may raise similar claims before administrative bodies in the United States or abroad, even outside the context of litigation. Such mechanisms include re-examination, interference proceedings, derivation proceedings, post grant review, *inter partes* review and equivalent proceedings such as opposition, invalidation and revocation proceedings in foreign jurisdictions. Such proceedings could result in the revocation or cancellation of or amendment to our patents in such a way that they no longer cover any product candidates we may develop or our technology or prevent third parties from competing with any product candidates we may develop or our technology. The outcome following legal assertions of invalidity and unenforceability is unpredictable. With respect to the validity question, for example, we cannot be certain that there is no invalidating prior art, of which the patent examiner and we or our licensing partners were unaware during prosecution. If a third party were to prevail on a legal assertion of invalidity or unenforceability, we could lose at least part, and perhaps all, of the patent protection on one or more of our product candidates or technology. Such a loss of patent protection could have a material adverse effect on our business, financial condition, results of operations and prospects.

If we are unable to protect the confidentiality of our trade secrets, our business and competitive position would be harmed.

In addition to the protection afforded by patents, we rely on trade secret protection and confidentiality agreements to protect proprietary know-how that is not patentable or that we elect not to patent, processes for which patents are difficult to enforce and any other elements of our product candidate discovery and development processes that involve proprietary know-how, information or technology that is not covered by patents. However, trade secrets can be difficult to protect and some courts inside and outside the United States are less willing or unwilling to protect trade secrets. We seek to protect

our proprietary technology and processes, in part, by entering into confidentiality agreements with our employees, consultants, scientific advisors, contractors and other parties who have access to such technology and processes. However, we may not be able to prevent the unauthorized disclosure or use of our technical know-how or other trade secrets by the parties to these agreements. Monitoring unauthorized uses and disclosures is difficult, and we do not know whether the steps we have taken to protect our proprietary technologies will be effective. If any of the collaborators, scientific advisors, employees and consultants who are parties to these agreements breach or violate the terms of any of these agreements, we may not have adequate remedies for any such breach or violation. As a result, we could lose our trade secrets and third parties could use our trade secrets to compete with any product candidates we may develop and our technology. Additionally, we cannot guarantee that we have entered into such agreements with each party that may have or has had access to our trade secrets or proprietary technology and processes.

We also seek to preserve the integrity and confidentiality of our data and trade secrets by maintaining physical security of our premises and physical and electronic security of our information technology systems; however, such systems and security measures may be breached, and we may not have adequate remedies for any breach.

In addition, our trade secrets may otherwise become known or be independently discovered by competitors or other third parties. Competitors or third parties could purchase any product candidates we may develop or our technology and attempt to replicate some or all of the competitive advantages we derive from our development efforts, willfully infringe our intellectual property rights, design around our intellectual property rights or develop their own competitive technologies that fall outside the scope of our intellectual property rights. If any of our trade secrets were to be lawfully obtained or independently developed by a competitor or other third party, we would have no right to prevent them, or those to whom they communicate such trade secrets, from using that technology or information to compete with us. If our trade secrets are not adequately protected so as to protect our market against competitors' products, our business, financial condition, results of operations and prospects could be materially and adversely affected.

Third parties may initiate legal proceedings alleging that we are infringing, misappropriating or otherwise violating their intellectual property rights, the outcome of which would be uncertain and could harm our business.

Our commercial success depends upon our ability and the ability of our collaborators to develop, manufacture, market and sell our product candidates and use our proprietary technologies without infringing, misappropriating or otherwise violating the intellectual property rights of third parties. The biotechnology and pharmaceutical industries are characterized by extensive and complex litigation regarding patents and other intellectual property rights. We may become party to, or be threatened with, adversarial proceedings or litigation in which third parties may assert infringement, misappropriation or other violation claims against us, alleging that any product candidates we may develop, manufacturing methods, formulations or administration methods are covered by their patents. Given the vast number of patents and other intellectual property in our field of technology, we cannot be certain or guarantee that we do not infringe, misappropriate or otherwise violate patents or other intellectual property. Other companies and institutions have filed, and continue to file, patent applications that may be related to our technology and, more broadly, to gene therapy and related manufacturing methods. Some of these patent applications have already been allowed or issued and others may issue in the future. Since this area is competitive and of strong interest to pharmaceutical and biotechnology companies, there will likely be additional patent applications filed and additional patents granted in the future, as well as additional research and development programs expected in the future. Numerous U.S. and foreign issued patents and pending patent applications, which are owned by third parties, exist in the fields in which we are pursuing development candidates. As the biotechnology and pharmaceutical industries expand and more patents are issued, the risk increases that we may be subject to claims of infringement of the patent rights of third parties. If a patent holder believes the manufacture, use, sale or importation of any product candidates we may develop or our technology infringes its patent, the patent holder may sue us even if we have licensed other patent rights for our technology.

We are aware of certain patents in the United States and other jurisdictions owned by third parties that claim subject matter that relates to our program candidates and the FORCE platform. Although we believe that these patents are invalid and/or not infringed, such third parties may assert these patents against us in litigation in the United States or other jurisdictions. The outcome of any such litigation is uncertain and, even if we prevail, the costs of such litigation could have a material adverse effect on our financial position, result in disclosure of our trade secrets, distract key personnel from the continued development of our business, and adversely affect our ability to enter or maintain commercial relationships with collaborators, clients or customers. If we are unsuccessful in such litigation, we could be prevented from commercializing products or could be required to take licenses from such third parties which may not be available on commercially reasonable terms, if at all.

It is also possible that we have failed to identify relevant third-party patents or applications. Because patent applications can take many years to issue, may be confidential for 18 months or more after filing and can be revised before issuance, there may be applications now pending which may later result in issued patents that may be infringed by the manufacture, use, sale or importation of any product candidates we may develop or our technology and we may not be aware of such patents. Furthermore, applications filed before November 29, 2000 and certain applications filed after that date that will

not be filed outside the United States may remain confidential until a patent issues. Moreover, it is difficult for industry participants, including us, to identify all third-party patent rights that may be relevant to any product candidates we may develop and our technologies because patent searching is imperfect due to differences in terminology among patents, incomplete databases and the difficulty in assessing the meaning of patent claims. We may fail to identify relevant patents or patent applications or may identify pending patent applications of potential interest but incorrectly predict the likelihood that such patent applications may issue with claims of relevance to our technology. In addition, we may incorrectly conclude that a third-party patent is invalid, unenforceable or not infringed by our activities. Additionally, pending patent applications that have been published can, subject to certain limitations, be later amended in a manner that could cover our technologies, any product candidates we may develop or the use of any product candidates we may develop.

Third parties may assert infringement claims against us based on existing patents or patents that may be granted in the future, regardless of their merit. There is a risk that third parties may choose to engage in litigation with us to enforce or to otherwise assert their patent rights against us. Even if we believe such claims are without merit, a court of competent jurisdiction could hold that these third-party patents are valid, enforceable and infringed, which could adversely affect our ability to commercialize any product candidates we may develop or any other of our product candidates or technologies covered by the asserted third-party patents. In order to successfully challenge the validity of any such U.S. patent in federal court, we would need to overcome a presumption of validity. As this burden is a high one requiring us to present clear and convincing evidence as to the invalidity of any such U.S. patent claim, there is no assurance that a court of competent jurisdiction would invalidate the claims of any such U.S. patent. If we are found to infringe a third party's valid and enforceable intellectual property rights, we could be required to obtain a license from such third party to continue developing, manufacturing and marketing any product candidates we may develop and our technology. However, we may not be able to obtain any required license on commercially reasonable terms or at all. Even if we were able to obtain a license, it could be non-exclusive, thereby giving our competitors and other third parties access to the same technologies licensed to us, and it could require us to make substantial licensing and royalty payments. We could be forced, including by court order, to cease developing, manufacturing and commercializing the infringing technology or product candidates. In addition, we could be found liable for monetary damages, including treble damages and attorneys' fees, if we are found to have willfully infringed a patent or other intellectual property right. A finding of infringement could prevent us from manufacturing and commercializing any product candidates we may develop or force us to cease some of our business operations, which could harm our business. Claims that we have misappropriated the confidential information or trade secrets of third parties could have a similar negative impact on our business, financial condition, results of operations and prospects.

Intellectual property litigation or other proceedings could cause us to spend substantial resources and distract our personnel from their normal responsibilities.

Competitors may challenge the validity and enforceability of our patent rights or those of our licensing partners, infringe, misappropriate or otherwise violate our or our licensors' patent and other intellectual property rights, or we may be required to defend against claims of infringement, misappropriation or other violation. Litigation and other proceedings in connection with any of the foregoing claims can be unpredictable, expensive and time consuming. Even if resolved in our favor, litigation or other proceedings relating to intellectual property claims may cause us to incur significant expenses and could distract our scientific, technical and management personnel from their normal responsibilities. In addition, there could be public announcements of the results of hearings, motions or other interim proceedings or developments and if securities analysts or investors perceive these results to be negative, it could have a substantial adverse effect on the price of our common stock. Such litigation or proceedings could substantially increase our operating losses and reduce the resources available for development activities or any future sales, marketing or distribution activities.

We may not have sufficient financial or other resources to adequately conduct such litigation or proceedings. Some of our competitors or other third parties may be able to sustain the costs of such litigation or proceedings more effectively than we can because of their greater financial resources and more mature and developed intellectual property portfolios. Uncertainties resulting from the initiation and continuation of patent litigation or other proceedings could adversely affect our ability to compete in the marketplace and could have a material adverse effect on our business, financial condition, results of operations and prospects.

We may be subject to claims asserting that our employees, consultants or advisors have wrongfully used or disclosed alleged trade secrets of their current or former employers or claims asserting ownership of what we regard as our own intellectual property.

Many of our employees, consultants or advisors are currently, or were previously, employed at universities or other biotechnology or pharmaceutical companies, including our competitors or potential competitors. Although we try to ensure that our employees, consultants and advisors do not use the proprietary information or know-how of others in their work for us, we may be subject to claims that these individuals or we have used or disclosed intellectual property, including trade secrets or other proprietary information, of any such individual's current or former employer. Litigation may be necessary to defend against these claims. If we fail in defending any such claims, in addition to paying monetary damages, we may lose valuable intellectual property rights or be required to obtain licenses to such intellectual property

rights, which may not be available on commercially reasonable terms or at all. An inability to incorporate such intellectual property rights would harm our business and may prevent us from successfully commercializing any product candidates we may develop or at all. In addition, we may lose personnel as a result of such claims and any such litigation or the threat thereof may adversely affect our ability to hire employees or contract with independent contractors. A loss of key personnel or their work product could hamper or prevent our ability to commercialize any product candidates we may develop and our technology, which would have a material adverse effect on our business, results of operations, financial condition and prospects. Even if we are successful in defending against such claims, litigation could result in substantial costs and be a distraction to our scientific and management personnel.

In addition, while it is our policy to require our employees and contractors who may be involved in the conception or development of intellectual property to execute agreements assigning such intellectual property to us, we may be unsuccessful in executing such an agreement with each party who, in fact, conceives or develops intellectual property that we regard as our own. Moreover, even when we obtain agreements assigning intellectual property to us, the assignment of intellectual property rights may not be self-executing or the assignment agreements may be breached, and we may be forced to bring claims against third parties, or defend claims that they may bring against us, to determine the ownership of what we regard as our intellectual property. Furthermore, individuals executing agreements with us may have pre-existing or competing obligations to a third party, such as an academic institution, and thus an agreement with us may be ineffective in perfecting ownership of inventions developed by that individual. Disputes about the ownership of intellectual property that we own may have a material adverse effect on our business, financial condition, results of operations and prospects.

In addition, we or our licensors may in the future be subject to claims by former employees, consultants or other third parties asserting an ownership right in our owned or licensed patent rights. An adverse determination in any such submission or proceeding may result in loss of exclusivity or freedom to operate or in patent claims being narrowed, invalidated or held unenforceable, in whole or in part, which could limit our ability to stop others from using or commercializing similar technology and therapeutics, without payment to us, or could limit the duration of the patent protection covering our technology and any product candidates we may develop. Such challenges may also result in our inability to develop, manufacture or commercialize our technology and product candidates without infringing third-party patent rights. In addition, if the breadth or strength of protection provided by our owned or licensed patent rights are threatened, it could dissuade companies from collaborating with us to license, develop or commercialize current or future technology and product candidates. Any of the foregoing could have a material adverse effect on our business, financial condition, results of operations and prospects.

If we do not obtain patent term extension and data exclusivity for any product candidates we may develop, our business may be harmed.

Depending upon the timing, duration and specifics of any FDA marketing approval of any product candidates we may develop and our technology, one or more of our U.S. patents that we license or may own in the future may be eligible for limited patent term extension under Hatch-Waxman Amendments. The Hatch-Waxman Amendments permit a patent extension term of up to five years as compensation for patent term lost during the FDA regulatory review process. A patent term extension cannot extend the remaining term of a patent beyond a total of 14 years from the date of product approval, only one patent may be extended and only those claims covering the approved product, a method for using it or a method for manufacturing it may be extended. The application for the extension must be submitted prior to the expiration of the patent for which extension is sought. A patent that covers multiple products for which approval is sought can only be extended in connection with one of the approvals. However, we may not be granted an extension because of, for example, failing to exercise due diligence during the testing phase or regulatory review process, failing to apply within applicable deadlines, failing to apply prior to expiration of relevant patents or otherwise failing to satisfy applicable requirements. Moreover, the applicable time period or the scope of patent protection afforded could be less than we request. In addition, to the extent we wish to pursue patent term extension based on a patent that we in-license from a third party, we would need the cooperation of that third party. If we are unable to obtain patent term extension or the term of any such extension is less than we request, our competitors may obtain approval of competing products following our patent expiration, and our revenue could be reduced. Any of the foregoing could have a material adverse effect on our business, financial condition, results of operations and prospects.

We may be subject to claims challenging the inventorship or ownership of our patent and other intellectual property rights.

We or our licensors may be subject to claims that former employees, collaborators or other third parties have an interest in our owned or in-licensed patent rights, trade secrets or other intellectual property as an inventor or co-inventor. For example, we or our licensors may have inventorship disputes arise from conflicting obligations of employees, consultants or others who are involved in developing our product candidates or technology. Litigation may be necessary to defend

against these and other claims challenging inventorship or our or our licensors' ownership of our owned or in-licensed patent rights, trade secrets or other intellectual property. If we or our licensors fail in defending any such claims, in addition to paying monetary damages, we may lose valuable intellectual property rights, such as exclusive ownership of or right to use intellectual property that is important to any product candidates we may develop or our technology. Even if we are successful in defending against such claims, litigation could result in substantial costs and be a distraction to management and other employees. Any of the foregoing could have a material adverse effect on our business, financial condition, results of operations and prospects.

If our trademarks and trade names are not adequately protected, then we may not be able to build name recognition in our markets of interest and our business may be adversely affected.

We have filed trademark applications with the USPTO for our corporate name, logos and tagline. Our current and future trademark applications in the United States and other foreign jurisdictions may not be allowed or may be subsequently opposed. Once filed and registered, our trademarks or trade names may be challenged, infringed, circumvented or declared generic or determined to be infringing on other marks. As a means to enforce our trademark rights and prevent infringement, we may be required to file trademark claims against third parties or initiate trademark opposition proceedings. This can be expensive and time-consuming, particularly for a company of our size. We may not be able to protect our rights to these trademarks and trade names, which we need to build name recognition among potential partners or customers in our markets of interest. At times, third parties may adopt trade names or trademarks similar to ours, thereby impeding our ability to build brand identity and possibly leading to market confusion. In addition, there could be potential trade name or trademark infringement claims brought by owners of other registered trademarks or trademarks that incorporate variations of our registered or unregistered trademarks or trade names. Over the long term, if we are unable to establish name recognition based on our trademarks and trade names, then we may not be able to compete effectively and our business may be adversely affected. Our efforts to enforce or protect our proprietary rights related to trademarks, trade secrets, domain names, copyrights or other intellectual property may be ineffective and could result in substantial costs and diversion of resources. Any of the foregoing could have a material adverse effect on our business, financial condition, results of operations or prospects.

Intellectual property rights do not necessarily address all potential threats.

The degree of future protection afforded by our intellectual property rights is uncertain because intellectual property rights have limitations and may not adequately protect our business or permit us to maintain our competitive advantage. For example:

- others may be able to make products that are similar to any product candidates we may develop but that are not covered by the intellectual property, including the claims of the patents, that we own or license currently or in the future;
- we, or our license partners or current or future collaborators, might not have been the first to make the inventions covered by the issued patent or pending patent application that we own or license currently or in the future;
- we, or our license partners or current or future collaborators, might not have been the first to file patent applications covering certain of our or their inventions;
- others may independently develop similar or alternative technologies or duplicate any of our technologies without infringing, misappropriating or otherwise violating our owned or licensed intellectual property rights;
- it is possible that our or our licensors' current or future pending patent applications will not lead to issued patents;
- issued patents that we hold rights to may be held invalid or unenforceable, including as a result of legal challenges by third parties;
- third parties might conduct research and development activities in jurisdictions where we do not have patent or other intellectual property rights and then use the information learned from such activities to develop competitive products for sale in our major commercial markets;
- we may not develop additional proprietary technologies that are patentable;
- the patents or other intellectual property rights of others may have an adverse effect on our business; and
- we may choose not to file a patent for certain trade secrets or know-how, and a third party may subsequently file a patent covering such intellectual property.

Should any of these events occur, they could significantly harm our business, financial condition, results of operations and prospects.

Our reliance on third parties requires us to share our trade secrets, which increases the possibility that a competitor or other third party will discover our trade secrets or that our trade secrets will be misappropriated or disclosed.

Because we currently rely on certain third parties to manufacture all or part of our drug product and to perform quality testing, and because we collaborate with various organizations and academic institutions for the advancement of our product engine and pipeline, we must, at times, share our proprietary technology and confidential information, including trade secrets, with them. We seek to protect our proprietary technology, in part, by entering into confidentiality agreements and, if applicable, material transfer agreements, collaborative research agreements, consulting agreements and other similar agreements with our collaborators, advisors, employees, consultants and contractors prior to beginning research or disclosing any proprietary information. These agreements typically limit the rights of the third parties to use or disclose our confidential information, including our trade secrets. Despite the contractual provisions employed when working with third parties, the need to share trade secrets and other confidential information increases the risk that such trade secrets become known by our competitors or other third parties, are inadvertently incorporated into the technology of others or are disclosed or used in violation of these agreements. Despite our efforts to protect our trade secrets, our competitors may discover our trade secrets, either through breach of these agreements, independent development or publication of information including our trade secrets by third parties. Given that our proprietary position is based, in part, on our know-how and trade secrets, a competitor's or other third party's discovery of our proprietary technology and confidential information or other unauthorized use or disclosure would impair our competitive position and may harm our business, financial condition, results of operations and prospects.

Risks related to regulatory approval and other regulatory and legal compliance matters

Even if we complete the necessary preclinical studies and clinical trials, the marketing approval process is expensive, time-consuming and uncertain and may prevent us from obtaining approvals for the commercialization of any product candidates we may develop. If we are not able to obtain, or if there are delays in obtaining, required regulatory approvals, we will not be able to commercialize, or will be delayed in commercializing, product candidates we may develop, and our ability to generate revenue will be materially impaired.

Any product candidates we may develop and the activities associated with their development and commercialization, including their design, testing, manufacture, safety, efficacy, recordkeeping, labeling, storage, approval, advertising, promotion, sale and distribution, are subject to comprehensive regulation by the FDA and other regulatory authorities in the United States and by comparable authorities in other countries. Failure to obtain marketing approval for a product candidate we may develop will prevent us from commercializing the product candidate in a given jurisdiction. We have not received approval to market any product candidates from regulatory authorities in any jurisdiction. We have no experience as a company in filing and supporting the applications necessary to gain marketing approvals and expect to rely on third-party CLROs to assist us in this process. Securing regulatory approval requires the submission of extensive preclinical and clinical data and supporting information to the various regulatory authorities for each therapeutic indication to establish the product candidate's safety, purity and potency. Securing regulatory approval also requires the submission of information about the product manufacturing process to, and inspection of manufacturing facilities by, the relevant regulatory authority. Any product candidates we may develop may not be effective, may be only moderately effective or may prove to have undesirable or unintended side effects, toxicities, or other characteristics that may preclude our obtaining marketing approval or prevent or limit commercial use.

The process of obtaining marketing approvals, both in the United States and abroad, is expensive, may take many years if additional clinical trials are required, if approval is obtained at all, and can vary substantially based upon a variety of factors, including the type, complexity and novelty of the product candidates involved. Of the large number of products in development, only a small percentage successfully complete the FDA or foreign regulatory approval processes and are commercialized. Even if any product candidates we may develop demonstrate safety and efficacy in clinical trials, the regulatory agencies may not complete their review processes in a timely manner, or we may not be able to obtain regulatory approval. Additional delays may result if an FDA Advisory Committee or other regulatory authority recommends non-approval or restrictions on approval. Changes in marketing approval policies during the development period, changes in or the enactment of additional statutes or regulations, or changes in regulatory review for each submitted product application, may cause delays in the approval or rejection of an application. The FDA and comparable authorities in other countries have substantial discretion in the approval process and may refuse to accept any application or may decide that our data is insufficient for approval and require additional preclinical, clinical or other studies. In addition, varying interpretations of the data obtained from preclinical and clinical testing could delay, limit or prevent marketing approval of a product candidate. If we experience delays in obtaining approval or if we fail to obtain approval of any product candidates we may develop, the commercial prospects for those product candidates may be harmed, and our ability to generate revenues will be materially impaired.

Even if we eventually complete clinical testing and receive approval of a BLA or foreign marketing application for any product candidates, the FDA or the applicable foreign regulatory agency may grant approval or other marketing authorization contingent on the performance of costly additional clinical trials, including post-market clinical trials. The FDA or the applicable foreign regulatory agency also may approve or authorize for marketing a product candidate for a more limited indication or patient population that we originally request, and the FDA or applicable foreign regulatory agency may not approve or authorize the labeling that we believe is necessary or desirable for the successful commercialization of a product candidate. Any of these restrictions or commitments could render an approved product not commercially viable, which would materially adversely impact our business and prospects.

Obtaining and maintaining marketing approval or commercialization of our product candidates in the United States does not mean that we will be successful in obtaining marketing approval of our product candidates in other jurisdictions. Failure to obtain marketing approval in foreign jurisdictions would prevent any product candidates we may develop from being marketed in such jurisdictions, which, in turn, would materially impair our ability to generate revenue.

In order to market and sell any product candidates we may develop in the European Union and many other foreign jurisdictions, we or our collaborators must obtain separate marketing approvals and comply with numerous and varying regulatory requirements. The approval procedure varies among countries and can involve additional testing. The time required to obtain approval may differ substantially from that required to obtain FDA approval. The regulatory approval process outside the United States generally includes all of the risks associated with obtaining FDA approval. In addition, in many countries outside the United States, it is required that the product be approved for reimbursement before the product can be approved for sale in that country. We or these third parties may not obtain approvals from regulatory authorities outside the United States on a timely basis, if at all. Approval by the FDA does not ensure approval by regulatory authorities in other countries or jurisdictions, and approval by one regulatory authority outside the United States does not ensure approval by regulatory authorities in other countries or jurisdictions or by the FDA. We may not be able to file for marketing approvals and may not receive necessary approvals to commercialize our medicines in any jurisdiction, which would materially impair our ability to generate revenue.

Additionally, we could face heightened risks with respect to seeking marketing approval in the United Kingdom as a result of the recent withdrawal of the United Kingdom from the European Union, commonly referred to as Brexit. Pursuant to the formal withdrawal arrangements agreed between the United Kingdom and the European Union, the United Kingdom withdrew from the European Union, effective December 31, 2020. On December 24, 2020, the United Kingdom and the European Union entered into a Trade and Cooperation Agreement. The agreement sets out certain procedures for approval and recognition of medical products in each jurisdiction.

Any delay in obtaining, or an inability to obtain, any marketing approvals, as a result of the Trade and Cooperation Agreement or otherwise, would prevent us from commercializing any product candidates in the United Kingdom and/or the European Union and restrict our ability to generate revenue and achieve and sustain profitability. If any of these outcomes occur, we may be forced to restrict or delay efforts to seek regulatory approval in the United Kingdom and/or the European Union for any product candidates we may develop, which could significantly and materially harm our business.

Fast track designation by the FDA may not actually lead to a faster development or regulatory review or approval process and does not assure FDA approval of any product candidates we may develop.

If any product candidate we may develop is intended for the treatment of a serious or life-threatening condition and the product candidate demonstrates the potential to address unmet medical need for this condition, the sponsor may apply for FDA fast track designation. However, a fast track designation does not ensure that the product candidate will receive marketing approval or that approval will be granted within any particular timeframe. As a result, while we may seek and receive fast track designation for any product candidates we may develop, we may not experience a faster development process, review or approval compared to conventional FDA procedures. In addition, the FDA may withdraw fast track designation if it believes that the designation is no longer supported by data from our clinical development program. Fast track designation alone does not guarantee qualification for the FDA's priority review procedures.

Breakthrough or RMAT therapy designation by the FDA may not lead to a faster regulatory review or approval process and, in any event, does not assure FDA approval of any product candidates we may develop.

If any product candidate we may develop is intended, either alone or in combination with one or more other products, to treat a serious or life-threatening disease or condition and preliminary clinical evidence indicates that the product may demonstrate substantial improvement over existing therapies on one or more clinically significant endpoints, such as substantial treatment effects observed early in clinical development, the sponsor may apply for FDA breakthrough designation or a regenerative medicine advanced therapy, or RMAT, designation. However, neither a breakthrough designation nor an RMAT designation ensures that the product candidate will receive marketing approval or that approval will be granted within any particular timeframe. As a result, while we may seek and receive breakthrough or RMAT designation for any product candidates we may develop, we may not experience a faster development process, review or approval compared to conventional FDA procedures. In addition, the FDA may withdraw breakthrough or RMAT designation if it believes that the designation is no longer supported by data from our clinical development program. Neither breakthrough nor RMAT designation alone guarantees qualification for the FDA's priority review procedures.

Priority review designation by the FDA may not lead to a faster regulatory review or approval process and, in any event, does not assure FDA approval of any product candidates we may develop.

If the FDA determines that a product candidate we may develop offers major advances in treatment or provides a treatment where no adequate therapy exists, the FDA may designate the product candidate for priority review. A priority review designation means that the goal for the FDA to review an application is six months, rather than the standard review period of ten months. We may request priority review for any product candidates we may develop. The FDA has broad discretion with respect to whether or not to grant priority review status to a product candidate, so even if we believe a particular product candidate we may develop is eligible for such designation or status, the FDA may decide not to grant it. Moreover, a priority review designation does not necessarily mean a faster regulatory review process or necessarily confer any advantage with respect to approval compared to conventional FDA procedures. Receiving priority review from the FDA does not guarantee approval within the six-month review cycle or thereafter.

We may not be able to obtain orphan drug exclusivity for any product candidates we may develop, and even if we do, that exclusivity may not prevent regulatory authorities from approving other competing products.

Under the Orphan Drug Act, the FDA may designate a product as an orphan drug if it is a drug or biologic intended to treat a rare disease or condition. A similar regulatory scheme governs approval of orphan products by the EMA in the European Union. Generally, if a product candidate with an orphan drug designation subsequently receives the first marketing approval for the indication for which it has such designation, the product is entitled to a period of marketing exclusivity, which precludes the FDA or the EMA from approving another marketing application for the same product for the same therapeutic indication for that time period. The applicable period is seven years in the United States and ten years in the European Union. The exclusivity period in the European Union can be reduced to six years if a product no longer meets the criteria for orphan drug designation, in particular if the product is sufficiently profitable so that market exclusivity is no longer justified.

In order for the FDA to grant orphan drug exclusivity to one of our products, the agency must find that the product is indicated for the treatment of a condition or disease with a patient population of fewer than 200,000 individuals annually in the United States. The FDA may conclude that the condition or disease for which we seek orphan drug exclusivity does not meet this standard. Even if we obtain orphan drug exclusivity for a product, that exclusivity may not effectively protect the product from competition because different products can be approved for the same condition. In particular, the concept of what constitutes the "same drug" for purposes of orphan drug exclusivity remains in flux in the context of gene therapies, and the FDA has issued recent draft guidance suggesting that it would not consider two genetic medicine products to be different drugs solely based on minor differences in the transgenes or vectors. In addition, even after an orphan drug is approved, the FDA can subsequently approve the same product for the same condition if the FDA concludes that the later product is clinically superior in that it is shown to be safer, more effective or makes a major contribution to patient care. Orphan drug exclusivity may also be lost if the FDA or EMA determines that the request for designation was materially defective or if the manufacturer is unable to assure sufficient quantity of the product to meet the needs of the patients with the rare disease or condition.

In 2017, the Congress passed the FDA Reauthorization Act of 2017, or the FDARA. FDARA, among other things, codified the FDA's pre-existing regulatory interpretation, to require that a drug sponsor demonstrate the clinical superiority of an orphan drug that is otherwise the same as a previously approved drug for the same rare disease in order to receive orphan drug exclusivity. The new legislation reverses prior precedent holding that the Orphan Drug Act unambiguously requires that the FDA recognize the orphan exclusivity period regardless of a showing of clinical superiority. The FDA may further reevaluate the Orphan Drug Act and its regulations and policies. We do not know if, when, or how the FDA may change the orphan drug regulations and policies in the future, and it is uncertain how any changes might affect our business. Depending on what changes the FDA may make to its orphan drug regulations and policies, our business could be adversely impacted.

Even if we, or any collaborators we may have, obtain marketing approvals for any product candidates we may develop, the terms of approvals and ongoing regulation of our products could require the substantial expenditure of resources and may limit how we, or they, manufacture and market our products, which could materially impair our ability to generate revenue.

Any product candidate for which we obtain marketing approval, if ever, along with the manufacturing processes, post-approval clinical data, labeling, advertising and promotional activities for such medicine, will be subject to continual requirements of and review by the FDA and other regulatory authorities. These requirements include submissions of safety and other post-marketing information and reports, registration and listing requirements, cGMP requirements relating to quality control, quality assurance and corresponding maintenance of records and documents, and requirements regarding the distribution of samples to physicians and recordkeeping. For example, the holder of an approved BLA is obligated to monitor and report adverse events and any failure of a product to meet the specifications in the BLA. The FDA typically advises that patients treated with genetic medicine undergo follow-up observations for potential adverse events for a 15-year period. The holder of an approved BLA must also submit new or supplemental applications and obtain FDA approval for certain changes to the approved product, product labeling or manufacturing process. Even if marketing approval of a product candidate is granted, the approval may be subject to limitations on the indicated uses for which the medicine may be marketed or to the conditions of approval, or contain requirements for costly post-marketing testing and surveillance to monitor the safety or efficacy of the medicine.

Accordingly, assuming we, or any third parties we may collaborate with, receive marketing approval for one or more product candidates we may develop, we, and such collaborators, and our and their contract manufacturers will continue to expend time, money and effort in all areas of regulatory compliance, including manufacturing, production, product surveillance and quality control. If we and such collaborators are not able to comply with post-approval regulatory requirements, we and such collaborators could have the marketing approvals for our products withdrawn by regulatory authorities and our, or such collaborators', ability to market any future products could be limited, which could adversely affect our ability to achieve or sustain profitability. Further, the cost of compliance with post-approval regulations may have a negative effect on our business, operating results, financial condition and prospects.

If we fail to comply with applicable regulatory requirements following approval of any product candidates we may develop, a regulatory agency may:

- issue a warning letter asserting that we are in violation of the law;
- seek an injunction or impose civil or criminal penalties or monetary fines;
- suspend or withdraw regulatory approval;
- suspend any ongoing clinical trials;
- refuse to approve a pending BLA or supplements to a BLA submitted by us;
- seize product; or
- refuse to allow us to enter into supply contracts, including government contracts.

Any government investigation of alleged violations of law could require us to expend significant time and resources in response and could generate negative publicity. The occurrence of any event or penalty described above may inhibit our ability to commercialize any product candidates we may develop and generate revenues.

Any product candidate we may develop for which we obtain marketing approval will be subject to restrictions, such as the laws and regulations prohibiting the promotion of off-label uses, or may need to be withdrawn from the market, and we may be subject to substantial penalties if we fail to comply with regulatory requirements or if we experience unanticipated problems with our medicines, when and if any of them are approved.

The FDA and other regulatory agencies closely regulate the post-approval marketing and promotion of medicines to ensure that they are marketed only for the approved indications and in accordance with the provisions of the approved labeling. The FDA and other regulatory agencies impose stringent restrictions on manufacturers' communications regarding off-label use. In particular, a product may not be promoted for uses that are not approved by the FDA or such other regulatory agencies as reflected in the product's approved labeling. If we do not market our medicines for their approved indications, we may be subject to enforcement action for off-label marketing by the FDA and other federal and state enforcement agencies, including the Department of Justice. Violation of the Federal Food, Product, and Cosmetic Act and other statutes, including the False Claims Act, relating to the promotion and advertising of prescription products may also lead to investigations or allegations of violations of federal and state healthcare fraud and abuse laws and state consumer protection laws. The federal government has levied large civil and criminal fines against companies for alleged improper promotion of off-label use and has enjoined several companies from engaging in off-label promotion. The FDA

has also requested that companies enter into consent decrees or permanent injunctions under which specified promotional conduct is changed or curtailed. If we cannot successfully manage the promotion of our product candidates, if approved, we could become subject to significant liability, which would materially adversely affect our business and financial condition.

In addition, later discovery of previously unknown problems with our medicines, manufacturers or manufacturing processes, or failure to comply with regulatory requirements, may yield various results, including:

- restrictions on such medicines, manufacturers or manufacturing processes;
- restrictions on the labeling or marketing of a medicine;
- restrictions on the distribution or use of a medicine;
- requirements to conduct post-marketing clinical trials;
- receipt of warning or untitled letters;
- withdrawal of the medicines from the market;
- refusal to approve pending applications or supplements to approved applications that we submit;
- recall of medicines;
- fines, restitution or disgorgement of profits or revenue;
- suspension or withdrawal of marketing approvals;
- suspension of any ongoing clinical trials;
- refusal to permit the import or export of our medicines;
- product seizure; and
- injunctions or the imposition of civil or criminal penalties.

Any government investigation of alleged violations of law could require us to expend significant time and resources in response and could generate negative publicity. The occurrence of any event or penalty described above may inhibit our ability to commercialize any product candidates we develop and adversely affect our business, financial condition, results of operations and prospects.

Additionally, if any product candidates we may develop receive marketing approval, the FDA could require us to adopt a Risk Evaluation and Mitigation Strategy to ensure that the benefits outweigh its risks, which may include, among other things, a medication guide outlining the risks of the product for distribution to patients and a communication plan to healthcare practitioners. Furthermore, if we or others later identify undesirable side effects caused by our product candidate, several potentially significant negative consequences could result, including:

- regulatory authorities may suspend or withdraw approvals of such product candidate;
- regulatory authorities may require additional warnings on the label;
- we may be required to change the way a product candidate is administered or conduct additional clinical trials;
- we could be sued and held liable for harm caused to patients; and
- our reputation may suffer.

We and our contract manufacturers are subject to significant regulation. The manufacturing facilities on which we rely may not continue to meet regulatory requirements, which could materially harm our business.

All entities involved in the preparation of product candidates for clinical trials or commercial sale, including any contract manufacturers, are subject to extensive regulation. Components of a finished therapeutic product approved for commercial sale or used in late-stage clinical trials must be manufactured in accordance with cGMP. These regulations govern manufacturing processes and procedures (including record keeping) and the implementation and operation of quality systems to control and assure the quality of investigational products and products approved for sale. Poor control of production processes can lead to the introduction of adventitious agents or other contaminants or to inadvertent changes in the properties or stability of our product candidates that may not be detectable in final product testing. We or our contract manufacturer must supply all necessary documentation in support of a BLA on a timely basis and must adhere to the FDA's cGMP and cGMP regulations enforced through its facilities inspection program. Our facilities and quality systems and the facilities and quality systems of some or all of our third-party contractors must pass a pre-approval inspection for compliance with the applicable regulations as a condition of regulatory approval of any product candidates we may develop or any of our other potential products. In addition, the regulatory authorities may, at any time,

audit or inspect a manufacturing facility involved with the preparation of our product candidates or our other potential products or the associated quality systems for compliance with the regulations applicable to the activities being conducted. If these facilities do not pass a pre-approval plant inspection, FDA approval of the products will not be granted.

The regulatory authorities also may, at any time following approval of a product for sale, audit our manufacturing facilities or those of our third-party contractors. If any such inspection or audit identifies a failure to comply with applicable regulations or if a violation of our product specifications or applicable regulations occurs independent of such an inspection or audit, we or the relevant regulatory authority may require remedial measures that may be costly and/or time-consuming for us or a third party to implement and that may include the temporary or permanent suspension of a clinical trial or commercial sales or the temporary or permanent closure of a facility. Any such remedial measures imposed upon us or third parties with whom we contract could materially harm our business.

If we or any of our third-party manufacturers fail to maintain regulatory compliance, the FDA can impose regulatory sanctions including, among other things, refusal to approve a pending application for a new product, or revocation of a pre-existing approval. Any such consequence would severely harm our business, financial condition and results of operations.

If we or any contract manufacturers and suppliers we engage fail to comply with environmental, health, and safety laws and regulations, we could become subject to fines or penalties or incur significant costs.

We and any contract manufacturers and suppliers we engage are subject to numerous federal, state and local environmental, health, and safety laws, regulations and permitting requirements, including those governing laboratory procedures; the generation, handling, use, storage, treatment and disposal of hazardous and regulated materials and wastes; the emission and discharge of hazardous materials into the ground, air and water; and employee health and safety. Our operations involve the use of hazardous and flammable materials, including chemicals and biological and radioactive materials. Our operations also produce hazardous waste. We generally contract with third parties for the disposal of these materials and wastes. We cannot eliminate the risk of contamination or injury from these materials. In the event of contamination or injury resulting from our use of hazardous materials, we could be held liable for any resulting damages, and any liability could exceed our resources. Under certain environmental laws, we could be held responsible for costs relating to any contamination at third-party facilities. We also could incur significant costs associated with civil or criminal fines and penalties.

Compliance with applicable environmental laws and regulations may be expensive, and current or future environmental laws and regulations may impair our research and product development efforts. In addition, we cannot entirely eliminate the risk of accidental injury or contamination from these materials or wastes. Although we maintain workers' compensation insurance to cover us for costs and expenses we may incur due to injuries to our employees resulting from the use of hazardous materials, this insurance may not provide adequate coverage against potential liabilities. We do not carry specific biological or hazardous waste insurance coverage, and our property, casualty and general liability insurance policies specifically exclude coverage for damages and fines arising from biological or hazardous waste exposure or contamination. Accordingly, in the event of contamination or injury, we could be held liable for damages or be penalized with fines in an amount exceeding our resources, and our clinical trials or regulatory approvals could be suspended.

In addition, we may incur substantial costs in order to comply with current or future environmental, health and safety laws, regulations and permitting requirements. These current or future laws, regulations and permitting requirements may impair our research, development or production efforts. Failure to comply with these laws, regulations and permitting requirements also may result in substantial fines, penalties or other sanctions or business disruption. Any third-party contract manufacturers and suppliers we engage will also be subject to these and other environmental, health and safety laws and regulations. Liabilities they incur pursuant to these laws and regulations could result in significant costs or an interruption in operations, which could in turn have a material adverse effect on our business, financial condition, results of operations and prospects.

Our relationships with healthcare providers, physicians and third-party payers will be subject to applicable anti-kickback, fraud and abuse, and other healthcare laws and regulations, which could expose us to criminal sanctions, civil penalties, contractual damages, reputational harm and diminished profits and future earnings.

Healthcare providers, physicians and third-party payers play a primary role in the recommendation and prescription of any product candidates that we develop for which we obtain marketing approval. Our future arrangements with third-party payers and customers may expose us to broadly applicable fraud and abuse and other healthcare laws and regulations that may constrain the business or financial arrangements and relationships through which we research, market, sell and distribute our medicines for which we obtain marketing approval. Restrictions under applicable federal and state healthcare laws and regulations include the following:

- the federal healthcare anti-kickback statute prohibits, among other things, persons from knowingly and willfully soliciting, offering, receiving or providing remuneration, directly or indirectly, in cash or in kind, to induce or reward either the referral of an individual for, or the purchase, order, or recommendation of, any good or service, for which payment may be made under federal and state healthcare programs such as Medicare and Medicaid;
- the federal civil and criminal false claims laws, including the federal False Claims Act, and civil monetary penalty laws which can be enforced through civil whistleblower or qui tam actions, imposes civil and criminal penalties against individuals or entities for knowingly presenting or causing to be presented, to the federal government, claims for payment or approval from Medicare, Medicaid or other government payers that are false or fraudulent or making a false statement to avoid, decrease or conceal an obligation to pay money to the federal government, with potential liability including mandatory treble damages and significant per-claim penalties;
- the federal Health Insurance Portability and Accountability Act of 1996, or HIPAA, which prohibits, among other things, knowingly and willfully executing, or attempting to execute, a scheme or artifice to defraud any healthcare benefit program or obtain, by means of false or fraudulent pretenses, representations, or promises, any of the money or property owned by, or under the custody or control of, any healthcare benefit program, regardless of the payor (e.g., public or private), and knowingly and willfully falsifying, concealing or covering up by any trick or device a material fact or making any materially false, fictitious or fraudulent statements in connection with the delivery of, or payment for, healthcare benefits, items or services relating to healthcare matters;
- HIPAA, as further amended by the Health Information Technology for Economic and Clinical Health Act, or HITECH, which imposes certain requirements, including mandatory contractual terms, on covered entities subject to the rule, such as health plans, healthcare clearinghouses and certain healthcare providers, as well as their respective business associates and their subcontractors that perform services for them that involve the use, or disclosure of, individually identifiable health information, relating to the privacy, security, and transmission of such individually identifiable health information;
- the federal transparency requirements under the federal Physician Payments Sunshine Act, which requires certain manufacturers of drugs, devices, biologics and medical supplies to report to the Department of Health and Human Services, or HHS, information related to payments and other transfers of value to physicians, as defined by such law, and teaching hospitals and ownership and investment interests held by physicians and other healthcare providers and their immediate family members and applicable group purchasing organizations; and
- analogous state laws and regulations, such as state anti-kickback and false claims laws, which may apply to sales or marketing arrangements and claims involving healthcare items or services reimbursed by non-governmental third-party payers, including private insurers, and certain state laws that require pharmaceutical companies to comply with the pharmaceutical industry's voluntary compliance guidelines and the relevant compliance guidance promulgated by the federal government in addition to requiring drug manufacturers to report information related to drug pricing and payments to physicians and other healthcare providers or marketing expenditures and state and local laws that require the registration of sales representatives.

The provision of benefits or advantages to physicians to induce or encourage the prescription, recommendation, endorsement, purchase, supply, order or use of medicinal products is prohibited in the European Union. The provision of benefits or advantages to physicians is also governed by the national anti-bribery laws of European Union Member States, such as the UK Bribery Act 2010. Violation of these laws could result in substantial fines and imprisonment.

Payments made to physicians in certain European Union Member States must be publicly disclosed. Moreover, agreements with physicians often must be the subject of prior notification and approval by the physician's employer, his or her competent professional organization and/or the regulatory authorities of the individual European Union Member States. These requirements are provided in the national laws, industry codes or professional codes of conduct applicable in the European Union Member States. Failure to comply with these requirements could result in reputational risk, public reprimands, administrative penalties, fines or imprisonment.

Efforts to ensure that our business arrangements with third parties will comply with applicable healthcare laws and regulations will involve substantial costs. Because of the breadth of these laws and the narrowness of the statutory exceptions and safe harbors available, it is possible that governmental authorities will conclude that our business practices may not comply with current or future statutes, regulations or case law involving applicable fraud and abuse or other healthcare laws and regulations. If our operations are found to be in violation of any of these laws or any other governmental regulations that may apply to us, we may be subject to significant civil, criminal and administrative penalties, damages, fines, imprisonment, exclusion from government funded healthcare programs, such as Medicare and Medicaid, integrity oversight and reporting obligations, and the curtailment or restructuring of our operations. If any of the physicians or other providers or entities with whom we expect to do business are found to be not in compliance with applicable laws, they may be subject to significant criminal, civil or administrative sanctions, including exclusions from government funded healthcare programs. Liabilities they incur pursuant to these laws could result in significant costs or an interruption in operations, which could have a material adverse effect on our business, financial condition, results of operations and prospects.

Legislative and regulatory changes may increase the difficulty and cost for us and any future collaborators to obtain marketing approval of and commercialize our product candidates and affect the prices we, or they, may obtain.

In the United States and some foreign jurisdictions, there have been a number of legislative and regulatory changes and proposed changes regarding the healthcare system that could, among other things, prevent or delay marketing approval of any product candidates we may develop, restrict or regulate post-approval activities and affect our ability, or the ability of any future collaborators, to profitably sell any products for which we, or they, obtain marketing approval. We expect that current laws, as well as other healthcare reform measures that may be adopted in the future, may result in more rigorous coverage criteria and in additional downward pressure on the price that we, or any future collaborators, may receive for any approved products.

In the United States, the Medicare Prescription Drug, Improvement, and Modernization Act of 2003, or the Medicare Modernization Act, changed the way Medicare covers and pays for pharmaceutical products. The legislation expanded Medicare coverage for drug purchases by the elderly and introduced a new reimbursement methodology based on average sales prices for physician administered drugs. In addition, this legislation provided authority for limiting the number of drugs that will be covered in any therapeutic class. Cost reduction initiatives and other provisions of this legislation could decrease the coverage and price that we receive for any approved products. While the Medicare Modernization Act applies only to drug benefits for Medicare beneficiaries, private payers often follow Medicare coverage policy and payment limitations in setting their own reimbursement rates. Therefore, any reduction in reimbursement that results from the Medicare Modernization Act may result in a similar reduction in payments from private payers.

The ACA, which became law in 2010, contains provisions of importance to our business, including, without limitation, our ability to commercialize and the prices we may obtain for any product candidates we may develop and that are approved for sale, the following:

- an annual, non-deductible fee on any entity that manufactures or imports specified branded prescription drugs and biologic agents;
- an increase in the statutory minimum rebates a manufacturer must pay under the Medicaid Drug Rebate Program;
- expansion of federal healthcare fraud and abuse laws, including the False Claims Act and the Anti-Kickback Statute, new government investigative powers and enhanced penalties for noncompliance;
- a new Medicare Part D coverage gap discount program, in which manufacturers must now agree to offer 70% point-of-sale discounts off negotiated prices;
- extension of manufacturers' Medicaid rebate liability;
- expansion of eligibility criteria for Medicaid programs;
- expansion of the entities eligible for discounts under the Public Health Service pharmaceutical pricing program new requirements to report financial arrangements with physicians and teaching hospitals;
- a new requirement to annually report drug samples that manufacturers and distributors provide to physicians; and
- a new Patient-Centered Outcomes Research Institute to oversee, identify priorities in, and conduct comparative clinical effectiveness research, along with funding for such research.

In addition, other legislative changes have been adopted since the ACA was enacted. In August 2011, the Budget Control Act of 2011, among other things, created measures for spending reductions by Congress. A Joint Select Committee on Deficit Reduction, tasked with recommending a targeted deficit reduction of at least \$1.2 trillion for the years 2013 through 2021, was unable to reach required goals, thereby triggering the legislation's automatic reduction to several government programs. These changes included aggregate reductions to Medicare payments to providers of up to 2% per fiscal year, which went into effect in April 2013 and will remain in effect through 2030 unless additional Congressional action is taken. The Coronavirus Aid, Relief, and Economic Security Act, or the CARES Act, and other COVID-19 relief legislation suspended the 2% Medicare sequester from May 1, 2020 through March 31, 2021. In January 2013, the American Taxpayer Relief Act of 2012 became law, which, among other things, reduced Medicare payments to several providers and increased the statute of limitations period for the government to recover overpayments to providers from three to five years. These new laws may result in additional reductions in Medicare and other healthcare funding and otherwise affect the prices we may obtain for any of our product candidates for which we may obtain regulatory approval or the frequency with which any such product candidate is prescribed or used.

Since enactment of the ACA, there have been, and continue to be, numerous executive and legal challenges and Congressional actions to repeal and replace provisions of the law. For example, with enactment of the Tax Act, which was signed by President Trump on December 22, 2017, Congress effectively repealed the "individual mandate" by reducing the applicable penalty to zero dollars. The modification of this provision, which required most Americans to carry a minimal level of health insurance, became effective in 2019. Additionally, the 2020 federal spending package permanently eliminated, effective January 1, 2020, the ACA-mandated "Cadillac" tax on high-cost employer-sponsored health coverage and medical device tax and, effective January 1, 2021, also eliminated the health insurer tax. Further, the Bipartisan Budget Act of 2018, among other things, amended the ACA, effective January 1, 2019, to increase from 50 percent to 70 percent the point-of-sale discount that is owed by pharmaceutical manufacturers who participate in Medicare Part D and to close the coverage gap in most Medicare drug plans, commonly referred to as the "donut hole."

The Trump Administration also took executive actions to undermine or delay implementation of the ACA. During the Trump presidency, the president signed several executive orders designed to delay the implementation of certain provisions of the ACA or otherwise circumvent some of the requirements for health insurance mandated by the ACA. One executive order directs federal agencies with authorities and responsibilities under the ACA to waive, defer, grant exemptions from, or delay the implementation of any provision of the ACA that would impose a fiscal or regulatory burden on states, individuals, healthcare providers, health insurers or manufacturers of pharmaceuticals or medical devices. Another executive order terminates the cost-sharing subsidies that reimburse insurers under the ACA. In addition, CMS proposed regulations that would give states greater flexibility in setting benchmarks for insurers in the individual and small group marketplaces, which may have the effect of relaxing the essential health benefits required under the ACA for plans sold through such marketplaces.

Additionally, on December 14, 2018, a Texas U.S. District Court Judge ruled that the ACA is unconstitutional in its entirety because the "individual mandate" was repealed by Congress as part of the Tax Act. On November 10, 2020, the United States Supreme Court heard oral argument in this case and it is expected to issue a decision sometime this year. It is unclear how such litigation and other efforts to repeal and replace the ACA will impact the ACA and our business.

We expect that these healthcare reforms, as well as other healthcare reform measures that may be adopted in the future, may result in additional reductions in Medicare and other healthcare funding, more rigorous coverage criteria, new payment methodologies and additional downward pressure on the price that we receive for any approved product and/or the level of reimbursement physicians receive for administering any approved product we might bring to market. Reductions in reimbursement levels may negatively impact the prices we receive or the frequency with which our potential products are prescribed or administered. Any reduction in reimbursement from Medicare or other government programs may result in a similar reduction in payments from private payers.

The costs of prescription pharmaceuticals have also been the subject of considerable discussion in the United States, and members of Congress and the executive branch have stated that they will address such costs through new legislative and administrative measures. To date, there have been several recent U.S. congressional inquiries and proposed and enacted state and federal legislation designed to, among other things, bring more transparency to drug pricing, review the relationship between pricing and manufacturer patient programs, reduce the costs of drugs under Medicare and reform government program reimbursement methodologies for drug products. At the federal level, the Trump Administration's budget proposal for fiscal year 2021 includes a \$135 billion allowance to support legislative proposals seeking to reduce drug prices, increase competition, lower out-of-pocket drug costs for patients, and increase patient access to lower-cost generic and biosimilar drugs.

More recently, President Trump issued five executive orders intended to lower the costs of prescription drug products. Several of these orders are reflected in recently promulgated regulations, and one of these regulations is currently subject to a nationwide preliminary injunction. It remains to be seen whether these orders and resulting regulations will remain in force during the Biden Administration.

At the state level, individual states are increasingly aggressive in passing legislation and implementing regulations designed to control pharmaceutical and biological product pricing, including price or patient reimbursement constraints, discounts, restrictions on certain product access and marketing cost disclosure and transparency measures, and, in some cases, designed to encourage importation from other countries and bulk purchasing. In addition, regional healthcare authorities and individual hospitals are increasingly using bidding procedures to determine what pharmaceutical products and which suppliers will be included in their prescription drug and other healthcare programs. These measures could reduce the ultimate demand for our products, once approved, or put pressure on our product pricing. We expect that additional state and federal healthcare reform measures will be adopted in the future, any of which could limit the amounts that federal and state governments will pay for healthcare products and services, which could result in reduced demand for any product candidates we may develop or additional pricing pressures.

There have been, and likely will continue to be, legislative and regulatory proposals at the foreign, federal and state levels directed at containing or lowering the cost of healthcare. We cannot predict the initiatives that may be adopted in the future. The continuing efforts of the government, insurance companies, managed care organizations and other payors of healthcare services to contain or reduce costs of healthcare and/or impose price controls may adversely affect:

- the demand for product candidates that we may identify, if we obtain regulatory approval;
- our ability to receive or set a price that we believe is fair for our products;
- our ability to generate revenue and achieve or maintain profitability;
- the level of taxes that we are required to pay; and
- the availability of capital.

Our employees, principal investigators, consultants and commercial partners may engage in misconduct or other improper activities, including non-compliance with regulatory standards and requirements and insider trading.

We are exposed to the risk of fraud or other misconduct by our employees, consultants and partners, and, if we commence clinical trials, our principal investigators. Misconduct by these parties could include intentional failures to comply with FDA regulations or the regulations applicable in the European Union and other jurisdictions, provide accurate information to the FDA, the European Commission and other regulatory authorities, comply with healthcare fraud and abuse laws and regulations in the United States and abroad, report financial information or data accurately, or disclose unauthorized activities to us. In particular, sales, marketing and business arrangements in the healthcare industry are subject to extensive laws and regulations intended to prevent fraud, misconduct, kickbacks, self-dealing and other abusive practices. These laws and regulations restrict or prohibit a wide range of pricing, discounting, marketing and promotion, sales commission, customer incentive programs and other business arrangements. Such misconduct also could involve the improper use of information obtained in the course of clinical trials or interactions with the FDA or other regulatory authorities, which could result in regulatory sanctions and cause serious harm to our reputation. We have adopted a code of conduct applicable to all of our employees, but it is not always possible to identify and deter employee misconduct, and the precautions we take to detect and prevent this activity may not be effective in controlling unknown or unmanaged risks or losses or in protecting us from government investigations or other actions or lawsuits stemming from a failure to comply with these laws or regulations. If any such actions are instituted against us, and we are not successful in defending ourselves or asserting our rights, those actions could have a significant impact on our business, financial condition, results of operations and prospects, including the imposition of significant fines or other sanctions.

Laws and regulations governing any international operations we may have in the future may preclude us from developing, manufacturing and selling certain product candidates outside of the United States and require us to develop and implement costly compliance programs.

We are subject to numerous laws and regulations in each jurisdiction outside the United States in which we operate. The creation, implementation and maintenance of international business practices compliance programs is costly and such programs are difficult to enforce, particularly where reliance on third parties is required.

The Foreign Corrupt Practices Act, or FCPA, prohibits any U.S. individual or business from paying, offering, or authorizing the provision of money or anything of value, directly or indirectly through parties, to any foreign official, official of a public international organization, or political party official or candidate for the purpose of influencing any act or decision of the foreign entity in order to assist the individual or business in obtaining or retaining business. The FCPA also obligates companies whose securities are listed in the United States to comply with certain accounting provisions requiring the company to maintain books and records that accurately and fairly reflect all transactions of the corporation, including international subsidiaries, and to devise and maintain an adequate system of internal accounting controls for international operations. The anti-bribery provisions of the FCPA are enforced primarily by the Department of Justice. The SEC is involved with enforcement of the books and records provisions of the FCPA.

Compliance with the FCPA and other anti-corruption laws potentially applicable to our business is expensive and difficult, particularly in countries in which corruption is a recognized problem. In addition, compliance with the FCPA and other anti-corruption laws presents particular challenges in the pharmaceutical industry, because, in many countries, hospitals are operated by the government, and doctors and other hospital employees are considered foreign officials.

Various U.S. export and sanctions laws, regulations and executive orders also restrict the use and dissemination outside of the United States, or the sharing with certain non-U.S. nationals, of certain products and technical data relating to those products. Furthermore, such export and sanctions laws include restrictions or prohibitions on the sale or supply of certain products and services to United States embargoed countries or sanctioned countries, governments, persons and entities. Our expansion outside of the United States has required, and will continue to require, us to dedicate additional resources to comply with these laws, and these laws may preclude us from developing, manufacturing or selling certain drugs and drug candidates outside of the United States, which could limit our growth potential and increase our development costs. The failure to comply with laws governing international business practices may result in substantial penalties, including suspension or debarment from government contracting. Violation of the FCPA and export and sanctions laws can result in significant civil and criminal penalties, imprisonment, the loss of export or import privileges, debarment, breach of contract and fraud litigation, reputational harm, and other consequences. Indictment alone under the FCPA can lead to suspension of the right to do business with the U.S. government until the pending claims are resolved. Conviction of a violation of the FCPA can result in long-term disqualification as a government contractor. The termination of a government contract or relationship as a result of our failure to satisfy any of our obligations under laws governing international business practices would have a negative impact on our operations and harm our reputation and ability to procure government contracts. The SEC also may suspend or bar issuers from trading securities on U.S. exchanges for violations of the FCPA's accounting provisions.

We are subject to stringent privacy laws, information security laws, regulations, policies and contractual obligations related to data privacy and security and changes in such laws, regulations, policies, contractual obligations and failure to comply with such requirements could subject us to significant fines and penalties, which may have a material adverse effect on our business, financial condition, results of operations or prospects.

We are subject to data privacy and protection laws, regulations, policies and contractual obligations that apply to the collection, transmission, storage and use of personal information, which among other things, impose certain requirements relating to the privacy, security and transmission of personal information. The legislative and regulatory landscape for privacy and data protection continues to evolve in jurisdictions worldwide, and there has been an increasing focus on privacy and data protection issues with the potential to affect our business. Failure to comply with laws and regulations governing personal information could result in enforcement actions against us, including fines, claims for damages by affected individuals, damage to our reputation and loss of goodwill, any of which could have a material adverse effect on our business, financial condition, results of operations or prospects.

The regulatory framework for the collection, use, safeguarding, sharing, transfer and other processing of information worldwide is rapidly evolving and is likely to remain uncertain for the foreseeable future. Globally, virtually every jurisdiction in which we operate has established its own data security and privacy frameworks with which we must comply. For example, the collection, use, disclosure, transfer or other processing of personal data regarding individuals in the European Union, including personal health data, is subject to the European Union General Data Protection Regulation (EU) 2016/679, or the GDPR, which took effect across all member states of the European Economic Area, or EEA, in May 2018; and continues to have effect in amended form in the United Kingdom by operation of the so-called "UK GDPR" (i.e., the GDPR as it continues to form part of law in the United Kingdom by virtue of section 3 of the European Union (Withdrawal) Act 2018, as amended (including by the various Data Protection, Privacy and Electronic Communications (Amendments etc) (EU Exit) Regulations)). The GDPR is wide-ranging in scope and imposes numerous requirements on companies that process personal data, including requirements relating to processing health and other sensitive data, obtaining consent of the individuals to whom the personal data relates, establishing a legal basis for processing, providing

information to individuals regarding data processing activities, implementing safeguards to protect the security and confidentiality of personal data that requires the adoption of administrative, physical and technical safeguards to protect such information, providing notification of data breaches to appropriate data protection authorities or data subjects, establishing means for data subjects to exercise rights in relation to their personal data and taking certain measures when engaging third-party processors. The GDPR increases our obligations with respect to clinical trials conducted in the EEA and United Kingdom by expanding the definition of personal data to include coded data and requiring changes to informed consent practices and more detailed notices for clinical trial subjects and investigators. In addition, the GDPR also imposes strict rules on the transfer of personal data to countries outside the European Union, including the United States and, as a result, increases the scrutiny for transfers of personal data from clinical trial sites located in the EEA and United Kingdom to the United States. Switzerland has adopted similar restrictions. Although there are legal mechanisms to allow for the transfer of personal data from the United Kingdom, EEA and Switzerland to the United States, uncertainty about compliance with such data protection laws remains and such mechanisms may not be available or applicable with respect to the personal data processing activities necessary to research, develop and market our any product candidates we develop. For example, legal challenges in Europe to the mechanisms allowing companies to transfer personal data from the EEA to the United States could result in further limitations on the ability to transfer personal data across borders, particularly if governments are unable or unwilling to reach new or maintain existing agreements that support cross-border data transfers, such as the EU-U.S. and Swiss-U.S. Privacy Shield Frameworks. Specifically, on July 16, 2020, the Court of Justice of the European Union, or CEJU, invalidated Decision 2016/1250 on the adequacy of the protection provided by the EU-U.S. Privacy Shield Framework, in a case known colloquially as “Schrems II”. Following this decision, the Swiss Federal Data Protection and Information Commissioner, or the FDPIC, announced that the Swiss-U.S. Privacy Shield does not provide adequate safeguards for the purposes of personal data transfers from Switzerland to the United States. While the FDPIC does not have authority to invalidate the Swiss-U.S. Privacy Shield regime, the FDPIC’s announcement casts doubt on the viability of the Swiss-U.S. Privacy Shield as a future compliance mechanism for Swiss-U.S. data transfers. Following the decision in Schrems II, the United Kingdom government has also invalidated use of the EU-U.S. Privacy Shield as a mechanism for lawful transfers of personal data from the United Kingdom to the United States under the UK GDPR. The CJEU’s decision in Schrems II also raised questions about whether one of the primary alternatives to the EU-U.S. Privacy Shield, namely, the European Commission’s Standard Contractual Clauses, can lawfully be used for personal data transfers from Europe to the United States or other third countries that are not the subject of an adequacy decision of the European Commission. While the CJEU upheld the adequacy of the Standard Contractual Clauses in principle in Schrems II, it made clear that reliance on those Clauses alone may not necessarily be sufficient in all circumstances. Use of the Standard Contractual Clauses must now be assessed on a case-by-case basis taking into account the legal regime applicable in the destination country, in particular regarding applicable surveillance laws and relevant rights of individuals with respect to the transferred data. In the context of any given transfer, where the legal regime applicable in the destination country may or does conflict with the intended operation of the Standard Contractual Clauses and/or applicable European law, the decision in Schrems II and subsequent draft guidance from the European Data Protection Board, or EDPB, would require the parties to that transfer to implement certain supplementary technical, organizational and/or contractual measures to rely on the Standard Contractual Clauses as a compliant ‘transfer mechanism.’ However, the aforementioned draft guidance from the EDPB on such supplementary technical, organizational and/or contractual measures appears to conclude that no combination of such measures could be sufficient to allow effective reliance on the Standard Contractual Clauses in the context of transfers of personal data ‘in the clear’ to recipients in countries where the power granted to public authorities to access the transferred data goes beyond that which is ‘necessary and proportionate in a democratic society’ — which may, following the CJEU’s conclusions in Schrems II on relevant powers of United States public authorities and commentary in that draft EDPB guidance, include the United States in certain circumstances (e.g., where Section 702 of the US Foreign Intelligence Surveillance Act applies). At present, there are few, if any, viable alternatives to the EU-U.S. Privacy Shield and the Standard Contractual Clauses. As such, if we are unable to implement a valid solution for personal data transfers from Europe, including, for example, obtaining individuals’ explicit consent to transfer their personal data from Europe to the United States or other countries, we will face increased exposure to regulatory actions, substantial fines and injunctions against processing personal data from Europe. Inability to import personal data from the EEA, United Kingdom or Switzerland may also restrict our clinical trials activities in Europe; limit our ability to collaborate with contract research organizations as well as other service providers, contractors and other companies subject to European data protection laws; and require us to increase our data processing capabilities in Europe at significant expense. Additionally, other countries outside of Europe have enacted or are considering enacting similar cross-border data transfer restrictions and laws requiring local data residency, which could increase the cost and complexity of delivering our services and operating our business.

The GDPR also permits data protection authorities to require destruction of improperly gathered or used personal information and/or impose substantial fines for violations of the GDPR, which can be up to four percent of global revenues or 20 million Euros, whichever is greater, and confers a private right of action on data subjects and consumer associations to lodge complaints with supervisory authorities, seek judicial remedies, and obtain compensation for damages resulting from violations of the GDPR. In addition, the GDPR provides that European Union member states may make their own further laws and regulations limiting the processing of personal data, including genetic, biometric or health data. Furthermore, following the United Kingdom's withdrawal from the European Union on January 31, 2020, pursuant to the transitional arrangements agreed to between the United Kingdom and European Union, the GDPR continued to have effect in law in the United Kingdom, and continued to do so until December 31, 2020 as if the United Kingdom remained a Member State of the European Union for such purposes. Following December 31, 2020, and the expiry of those transitional arrangements, the data protection obligations of the GDPR continue to apply to United Kingdom-related processing of personal data in substantially unvaried form under the UK GDPR. However, going forward, there will be increasing scope for divergence in application, interpretation and enforcement of the data protection law as between the United Kingdom and EEA. Furthermore, the relationship between the United Kingdom and the EEA in relation to certain aspects of data protection law remains unclear. For example, it is still unclear whether the transfer of data from the EEA to the United Kingdom will in the future remain lawful under the GDPR. For the meantime, under the post-Brexit Trade and Cooperation Agreement between the European Union and the United Kingdom, it has been agreed, that transfers of personal data to the United Kingdom from European Union Member States will not be treated as "restricted transfers" to a non-EEA country for a period of up to four months from January 1, 2021, which may be extended by a further two months — such period, the adequacy assessment period. This will also apply to transfers to the United Kingdom from EEA Member States, assuming those Member States accede to the relevant provision of the Trade and Cooperation Agreement. Although the current maximum duration of the adequacy assessment period is six months it may end sooner, for example, in the event that the European Commission adopts an adequacy decision in respect of the United Kingdom, or the United Kingdom amends the UK GDPR and/or makes certain changes regarding data transfers under the UK GDPR or the Data Protection Act 2018 without the consent of the European Union (unless those amendments or decisions are made simply to keep relevant United Kingdom laws aligned with the European Union's data protection regime). Unless the European Commission makes an 'adequacy finding' in respect of the United Kingdom prior to the expiry of the adequacy assessment period, from that point onwards the United Kingdom will be an 'inadequate third country' under the GDPR and transfers of data from the EEA to the United Kingdom will require a 'transfer mechanism,' such as the European Commission's Standard Contractual Clauses issued and approved from time-to-time. Additionally, the transposition of the GDPR into United Kingdom domestic law by way of the UK GDPR could expose us to two parallel regimes, each of which potentially authorizes similar fines and other potentially divergent enforcement actions for certain violations. In addition to such parallel United Kingdom and European Union regimes, following the expiry of the post-Brexit transitional arrangements agreed between the United Kingdom and European Union, the United Kingdom Information Commissioner's Office is not able to be our 'lead supervisory authority' in respect of any 'cross border processing' for the purposes of the GDPR. In the event that we are unable to, and/or do not, designate a lead supervisory authority in an EEA Member State, with effect from January 1, 2021, we are not able to benefit from the GDPR's 'one stop shop' mechanism. Amongst other things, this would mean that, in the event of a violation of the GDPR affecting data subjects across the United Kingdom and the EEA, we could be investigated by, and ultimately fined by the United Kingdom Information Commissioner's Office and the supervisory authority in each and every EEA member state where data subjects have been affected by such violation. Additionally, other countries have passed or are considering passing laws requiring local data residency and/or restricting the international transfer of data.

Given the breadth and depth of changes in data protection obligations, preparing for and complying with the GDPR and similar laws' requirements are rigorous and time intensive and require significant resources and a review of our technologies, systems and practices, as well as those of any third-party collaborators, service providers, contractors or consultants that process or transfer personal data. The GDPR and other changes in laws or regulations associated with the enhanced protection of certain types of sensitive data, such as healthcare data or other personal information from our clinical trials, could require us to change our business practices and put in place additional compliance mechanisms, may interrupt or delay our development, regulatory and commercialization activities and increase our cost of doing business, and could lead to government enforcement actions, private litigation and significant fines and penalties against us and could have a material adverse effect on our business, financial condition or results of operations.

Similar privacy and data security requirements are either in place or underway in the United States. There are a broad variety of data protection laws that may be applicable to our activities, and a range of enforcement agencies at both the state and federal levels that can review companies for privacy and data security concerns based on general consumer protection laws. The Federal Trade Commission and state Attorneys General all are aggressive in reviewing privacy and data security protections for consumers. New laws also are being considered or have been implemented at both the state and federal levels. For example, the California Consumer Privacy Act of 2018, or the CCPA, which became effective on

January 1, 2020, requires companies that process information on California residents to make new disclosures to consumers about their data collection, use and sharing practices, provides consumers with new data privacy rights, imposes new operational requirements for covered businesses, provides a private right of action for data breaches and creates a statutory damages framework. Additionally, effective starting on January 1, 2023, the California Privacy Rights Act, or the CPRA, will significantly modify the CCPA, including by expanding consumers' rights with respect to certain sensitive personal information. The CPRA also creates a new state agency that will be vested with authority to implement and enforce the CCPA and the CPRA. Many other states are considering similar legislation, and a broad range of legislative measures also have been introduced at the federal level.

Although there are limited exemptions for clinical trial data under the CCPA, the CCPA and other similar laws could impact our business activities depending on how it is interpreted and exemplifies the vulnerability of our business to the evolving regulatory environment related to personal data.

There are numerous U.S. federal and state laws and regulations related to the privacy and security of personal information, including certain laws that regulate the use and disclosure of personal health information. In particular, regulations promulgated pursuant to HIPAA, as amended by HITECH, establish privacy and security standards that limit the use and disclosure of individually identifiable health information, or protected health information, and require the implementation of administrative, physical and technological safeguards to protect the privacy of protected health information and ensure the confidentiality, integrity and availability of electronic protected health information. These provisions may be applicable to our business. Determining whether protected health information has been handled in compliance with applicable privacy standards and our contractual obligations can be complex and may be subject to changing interpretation.

If we are unable to properly protect the privacy and security of protected health information, we could be found to have violated these privacy and security laws and/or breached certain contracts with our business partners (including as a business associate). Further, if we fail to comply with applicable privacy laws, including applicable HIPAA privacy and security standards, we could face significant civil and criminal penalties. HHS enforcement activity can result in financial liability and reputational harm, and responses to such enforcement activity can consume significant internal resources. In addition, state attorneys general are authorized to bring civil actions seeking either injunctions or damages in response to violations that threaten the privacy of state residents. We cannot be sure how these regulations will be interpreted, enforced or applied to our operations. In addition to the risks associated with enforcement activities and potential contractual liabilities, our ongoing efforts to comply with evolving laws and regulations at the federal and state level may be costly and require ongoing modifications to our policies, procedures and systems.

Any failure by our third-party collaborators, service providers, contractors or consultants to comply with applicable law, regulations or contractual obligations related to data privacy or security could result in proceedings against us by governmental entities or others.

We may publish privacy policies and other documentation regarding our collection, processing, use and disclosure of personal information and/or other confidential information. Although we endeavor to comply with our published policies and other documentation, we may at times fail to do so or may be perceived to have failed to do so. Moreover, despite our efforts, we may not be successful in achieving compliance if our employees or vendors fail to comply with our published policies and documentation. Such failures can subject us to potential international, local, state and federal action if they are found to be deceptive, unfair, or misrepresentative of our actual practices. Moreover, patients or subjects about whom we or our partners obtain information, as well as the providers who share this information with us, may contractually limit our ability to use and disclose the information. Claims that we have violated individuals' privacy rights or failed to comply with data protection laws or applicable privacy notices even if we are not found liable, could be expensive and time-consuming to defend and could result in adverse publicity that could harm our business.

It is possible that new and existing laws may be interpreted and applied in a manner that is inconsistent with our practices and our efforts to comply with the evolving data protection rules may be unsuccessful. If so, this could result in government-imposed fines, or penalties or orders requiring that we change our practices, which could adversely affect our business. We must devote significant resources to understanding and complying with this changing landscape. Failure to comply with federal, state and international laws regarding privacy and security of personal information could expose us to fines and penalties under such laws. Any such failure to comply with data protection and privacy laws could result in government-imposed fines, penalties or orders requiring that we change our practices, claims for damages or other liabilities, regulatory investigations and enforcement actions, litigation and significant costs for remediation, reputational harm, diminished profits and earnings, additional reporting requirements and/or oversight, any of which could adversely affect our business, our results of operations or prospects. We also face a threat of consumer class actions related to these laws and the overall protection of personal data. Even if we are not determined to have violated these laws, government investigations into these issues typically require the expenditure of significant resources and generate negative publicity, which could harm our reputation and our business, financial condition, results of operations or prospects.

Risks related to employee matters, managing growth and other operational matters

Our future success depends on our ability to retain key executives and to attract, retain and motivate qualified personnel.

We are highly dependent on the research and development, clinical, financial, operational and other business expertise of our executive officers, as well as the other principal members of our management, scientific and clinical teams. Although we have entered into employment offer letters with our executive officers, each of them may terminate their employment with us at any time. We do not maintain “key person” insurance for any of our executives or other employees. Recruiting and retaining qualified scientific, clinical, manufacturing, accounting, legal and sales and marketing personnel will also be critical to our success.

The loss of the services of our executive officers or other key employees could impede the achievement of our research, development and commercialization objectives and seriously harm our ability to successfully implement our business strategy. Furthermore, replacing executive officers and key employees may be difficult and may take an extended period of time because of the limited number of individuals in our industry with the breadth of skills and experience required to successfully develop, gain regulatory approval of and commercialize products. Competition to hire from this limited pool is intense, and we may be unable to hire, train, retain or motivate these key personnel on acceptable terms given the competition among numerous pharmaceutical and biotechnology companies for similar personnel. We also experience competition for the hiring of scientific and clinical personnel from universities and research institutions. In addition, we rely on consultants and advisors, including scientific and clinical advisors, to assist us in formulating our research and development and commercialization strategy. Our consultants and advisors may be employed by employers other than us and may have commitments under consulting or advisory contracts with other entities that may limit their availability to us. Our success as a public company also depends on implementing and maintaining internal controls and the accuracy and timeliness of our financial reporting. If we are unable to continue to attract and retain high quality personnel, our ability to pursue our growth strategy will be limited.

We expect to expand our development and regulatory capabilities and potentially implement sales, marketing and distribution capabilities, and as a result, we may encounter difficulties in managing our growth, which could disrupt our operations.

As of June 30, 2021, we had 71 full-time employees. As our development progresses, we expect to experience significant growth in the number of our employees and the scope of our operations, particularly in the areas of drug development, clinical, regulatory affairs and, if any product candidate we may develop receives marketing approval, sales, marketing, distribution and coverage and reimbursement capabilities. To manage our anticipated future growth, we must continue to implement and improve our managerial, operational and financial systems, expand our facilities and continue to recruit and train additional qualified personnel. Due to our limited financial resources and the limited experience of our management team in managing a company with such anticipated growth, we may not be able to effectively manage the expansion of our operations or recruit and train additional qualified personnel. The expansion of our operations may lead to significant costs and may divert our management and business development resources. Any inability to manage growth could delay the execution of our business plans or disrupt our operations.

As a growing biotechnology company, we are actively pursuing new platforms and product candidates in many therapeutic areas and across a wide range of diseases. Successfully developing product candidates for, and fully understanding the regulatory and manufacturing pathways to, all of these therapeutic areas and disease states requires a significant depth of talent, resources and corporate processes in order to allow simultaneous execution across multiple areas. Due to our limited resources, we may not be able to effectively manage this simultaneous execution and the expansion of our operations or recruit and train additional qualified personnel. This may result in weaknesses in our infrastructure, give rise to operational mistakes, legal or regulatory compliance failures, loss of business opportunities, loss of employees and reduced productivity among remaining employees. The physical expansion of our operations may lead to significant costs and may divert financial resources from other projects, such as the development of our product candidates. If our management is unable to effectively manage our expected development and expansion, our expenses may increase more than expected, our ability to generate or increase our revenue could be reduced and we may not be able to implement our business strategy. Our future financial performance and our ability to compete effectively and commercialize our product candidates, if approved, will depend in part on our ability to effectively manage the future development and expansion of our company.

Future acquisitions or strategic alliances could disrupt our business and harm our financial condition and results of operations.

We may acquire additional businesses, technologies or assets, form strategic alliances or create joint ventures with third parties that we believe will complement or augment our existing business. If we acquire businesses with promising markets or technologies, we may not be able to realize the benefit of acquiring such businesses if we are unable to successfully integrate them with our existing operations and company culture. We may encounter numerous difficulties in developing, manufacturing and marketing any new products or product candidates resulting from a strategic alliance or acquisition that delay or prevent us from realizing their expected benefits or enhancing our business. We cannot assure you that, following any such acquisition, we will achieve the expected synergies to justify the transaction. The risks we face in connection with acquisitions, include:

- diversion of management time and focus from operating our business to addressing acquisition integration challenges;
- coordination of research and development efforts;
- retention of key employees from the acquired company;
- changes in relationships with collaborators as a result of product acquisitions or strategic positioning resulting from the acquisition;
- cultural challenges associated with integrating employees from the acquired company into our organization;
- the need to implement or improve controls, procedures and policies at a business that prior to the acquisition may have lacked sufficiently effective controls, procedures and policies;
- liability for activities of the acquired company before the acquisition, including intellectual property infringement claims, violation of laws, commercial disputes, tax liabilities and other known liabilities;
- unanticipated write-offs or charges; and
- litigation or other claims in connection with the acquired company, including claims from terminated employees, customers, former stockholders or other third parties.

Our failure to address these risks or other problems encountered in connection with our past or future acquisitions or strategic alliances could cause us to fail to realize the anticipated benefits of these transactions, cause us to incur unanticipated liabilities and harm the business generally. There is also a risk that future acquisitions will result in the incurrence of debt, contingent liabilities, amortization expenses or incremental operating expenses, any of which could harm our financial condition or results of operations.

Our internal information technology systems, or those of our vendors, collaborators or other contractors or consultants, may fail or suffer security breaches, loss or leakage of data and other disruptions or compromise, which could result in a material disruption of our product development programs, compromise sensitive information related to our business or prevent us from accessing critical information, trigger contractual and legal obligations, potentially exposing us to liability, reputational harm or otherwise adversely affecting our business and financial results.

We are increasingly dependent upon information technology systems, infrastructure and data to operate our business. In the ordinary course of business, we collect, store and transmit confidential information (including but not limited to intellectual property, proprietary business information and personal information). It is critical that we, our vendors, collaborators or other contractors or consultants, do so in a secure manner to maintain the availability, security, confidentiality, privacy and integrity of such confidential information.

Despite the implementation of security measures, given the size and complexity of our internal information technology systems and those of our current and any future vendors, collaborators and other contractors and consultants, and the increasing amounts of confidential information that they maintain, such information technology systems are vulnerable to damage or interruption from computer viruses, computer hackers, malicious code, employee error, theft or misuse, denial-of-service attacks, sophisticated nation-state and nation-state-supported actors, unauthorized access, natural disasters, terrorism, war, telecommunication and electrical failures or other compromise. The risk of a security breach or disruption, particularly through cyber-attacks or cyber intrusion, including by computer hackers, foreign governments and cyber terrorists, has generally increased as the number, intensity and sophistication of attempted attacks and intrusions from around the world have increased. We may not be able to anticipate all types of security threats, and we may not be able to implement preventive measures effective against all such security threats. The techniques used by cyber criminals change frequently, may not be recognized until launched, and can originate from a wide variety of sources, including outside groups such as external service providers, organized crime affiliates, terrorist organizations or hostile foreign governments or agencies.

While we seek to protect our information technology systems from system failure, accident and security breach, our efforts may not be successful. If such an event were to occur, it could result in a disruption of our development programs and our business operations, whether due to a loss of our trade secrets or other proprietary or confidential information or other disruptions. For example, the loss of clinical trial data from future clinical trials could result in delays in our regulatory approval efforts and significantly increase our costs to recover or reproduce the data. If we were to experience a significant cybersecurity breach of our information systems or data, the costs associated with the investigation, remediation and potential notification of the breach to counterparties, data subjects, regulators or others could be material. In addition, our remediation efforts may not be successful. Moreover, if the information technology systems of our vendors, collaborators and other contractors and consultants become subject to disruptions or security breaches, we may have insufficient recourse against such third parties and we may have to expend significant resources to mitigate the impact of such an event, and to develop and implement protections to prevent future events of this nature from occurring. If we do not allocate and effectively manage the resources necessary to build and sustain the proper technology and cybersecurity infrastructure, we could suffer significant business disruption, including transaction errors, supply chain or manufacturing interruptions, processing inefficiencies, data loss or the loss of or damage to intellectual property or other proprietary information.

To the extent that any disruption or security breach were to result in a loss of, or damage to, our or our vendors', collaborators' or other contractors' or consultants' data or applications, or inappropriate disclosure of confidential or proprietary information, we could incur liability including litigation exposure, penalties and fines, we could become the subject of regulatory action or investigation, our competitive position and reputation could be harmed and the further development and commercialization of our product candidates could be delayed. As a result of such an event, we may be in breach of our contractual obligations. Furthermore, any such event that leads to unauthorized access, use, or disclosure of personal information, including personal information regarding our customers or employees, could harm our reputation, compel us to comply with federal and/or state breach notification laws and foreign law equivalents, subject us to mandatory corrective action, and otherwise subject us to liability under laws and regulations that protect the privacy and security of personal information, which could result in significant legal and financial exposure and reputational damages. Any of the above could have a material adverse effect on our business, financial condition, results of operations or prospects.

The financial exposure from the events referenced above could either not be insured against or not be fully covered through any insurance that we maintain and could have a material adverse effect on our business, financial condition, results of operations or prospects. In addition, we cannot be sure that our existing insurance coverage will continue to be available on acceptable terms or that our insurers will not deny coverage as to any future claim. There can be no assurance that the limitations of liability in our contracts would be enforceable or adequate or would otherwise protect us from liabilities or damages as a result of the events referenced above.

Our operations or those of the third parties upon whom we depend might be affected by the occurrence of a natural disaster, pandemic or other catastrophic event.

We depend on our employees, consultants, CMOs, CROs and CLROs, as well as regulatory agencies and other parties, for the continued operation of our business. While we maintain disaster recovery plans, they might not adequately protect us. Despite any precautions we take for natural disasters or other catastrophic events, these events, including terrorist attack, pandemics, hurricanes, fire, floods and ice and snowstorms, could result in significant disruptions to our research and development, preclinical studies, clinical trials, and, ultimately, commercialization of our products. Long-term disruptions in the infrastructure caused by events, such as natural disasters, the outbreak of war, the escalation of hostilities and acts of terrorism or other "acts of God," particularly involving cities in which we have offices, manufacturing or clinical trial sites, could adversely affect our businesses. Although we carry business interruption insurance policies and typically have provisions in our contracts that protect us in certain events, our coverage might not respond or be adequate to compensate us for all losses that may occur. Any natural disaster or catastrophic event affecting us, our CMOs, CROs or CLROs, regulatory agencies or other parties with which we are engaged could have a significant negative impact on our operations and financial performance.

The COVID-19 pandemic may affect our ability to initiate and complete preclinical studies, delay the initiation of our planned clinical trial or future clinical trials, disrupt regulatory activities, or have other adverse effects on our business and operations. In addition, this pandemic has caused substantial disruption and may adversely impact economies worldwide, which could negatively impact our operations.

In December 2019, a novel strain of coronavirus, SARS-CoV-2, causing a disease referred to as COVID-19, emerged in China. Since then, COVID-19 has spread to multiple countries worldwide, including the United States. In March 2020, the World Health Organization declared the COVID-19 outbreak a pandemic. The COVID-19 pandemic is causing many governments to implement measures to slow the spread of the outbreak through quarantines, travel restrictions, heightened border scrutiny and other measures. The outbreak and government measures taken in response have also had a significant impact, both direct and indirect, on businesses and commerce, as worker shortages have occurred; supply chains have been disrupted; facilities and production have been suspended; and demand for certain goods and services, such as medical services and supplies, has spiked, while demand for other goods and services, such as travel, has fallen.

The future progression of the outbreak and its effects on our business and operations are uncertain. We and our CMOs and CROs have experienced a reduction in the capacity to undertake research-scale production and to execute some preclinical studies, and we may face disruptions that affect our ability to initiate and complete preclinical studies, and disruptions in procuring items that are essential for our research and development activities, such as raw materials used in the manufacture of any product candidates we may develop, laboratory supplies used in our preclinical studies, or animals that are used for preclinical testing for which there are shortages because of ongoing efforts to address the outbreak. We and our CROs and CMOs may face disruptions related to our future IND-enabling studies and clinical trials arising from delays in preclinical studies, manufacturing disruptions, and the ability to obtain necessary IRB, IBC or other necessary site approvals, as well as other delays at clinical trial sites.

The response to the COVID-19 pandemic may also redirect resources with respect to regulatory and intellectual property matters in a way that would adversely impact our ability to progress regulatory approvals and protect our intellectual property. In addition, we may face impediments to regulatory meetings and approvals due to measures intended to limit in-person interactions. The pandemic has already caused significant disruptions in worldwide financial markets, and may continue to cause such disruptions, which may impact the volatility of our stock price and trading in our stock. We cannot be certain what the overall impact of the COVID-19 pandemic will be on our business, although for the reasons described above it has the potential to adversely affect our financial condition, results of operations and prospects.

Risks related to ownership of our common stock and our status as a public company

We do not know whether an active trading market will continue to develop or be sustained for our common stock and, as a result, it may be difficult for our stockholders to sell their shares of our common stock.

Our common stock began trading on the Nasdaq Global Select Market on September 17, 2020. Prior to September 17, 2020, there was no public market for our common stock, and we cannot assure you that an active trading market for our shares will continue to develop or be sustained. As a result, it may be difficult for our stockholders to sell their shares without depressing the market price of our common stock, or at all.

The price of our common stock is volatile and fluctuates substantially, which could result in substantial losses for our stockholders.

Our stock price has been, and is likely to continue to be, volatile. The stock market in general, and the market for smaller biopharmaceutical companies in particular, have experienced extreme price volatility and volume fluctuations that have often been unrelated to the operating performance of particular companies. As a result of this volatility, our stockholders may not be able to sell their common stock at or above the price they paid for their shares. The market price for our common stock may be influenced by many factors, including:

- timing and results of, or developments in, preclinical studies and clinical trials of any product candidates we may develop or those of our competitors or potential collaborators;
- adverse regulatory decisions, including failure to receive marketing approvals for any product candidates we may develop;
- our success in commercializing any product candidates that may be approved;
- the success of competitive products or technologies;
- regulatory or legal developments in the United States and other countries;

- developments or disputes concerning patent applications, issued patents or other intellectual property or proprietary rights;
- the recruitment or departure of key personnel;
- the level of expenses related to any product candidates we may develop;
- the results of our efforts to discover, develop, acquire or in-license products, product candidates, technologies or data referencing rights, the costs of commercializing any such products and the costs of development of any such product candidates or technologies;
- actual or anticipated changes in estimates as to our financial results, development timelines or recommendations by securities analysts;
- variations in our financial results or the financial results of companies that are perceived to be similar to us;
- sales of our common stock by us, our executive officers, directors or principal stockholders or others;
- changes in the structure of healthcare payment systems;
- market conditions in the pharmaceutical and biotechnology sectors;
- general economic, industry, political and market conditions, including conditions resulting from the effects of the ongoing COVID-19 pandemic; and
- the other factors described in this “Risk Factors” section.

In the past, following periods of volatility in the market price of a company’s securities, securities class-action litigation has often been instituted against that company. Any lawsuit to which we are a party, with or without merit, may result in an unfavorable judgment. We also may decide to settle lawsuits on unfavorable terms. Any such negative outcome could result in payments of substantial damages or fines, damage to our reputation or adverse changes to our offerings or business practices. Such litigation may also cause us to incur other substantial costs to defend such claims and divert management’s attention and resources.

If securities analysts do not publish or cease publishing research or reports or publish misleading, inaccurate or unfavorable research about our business or if they publish negative evaluations of our stock, the price and trading volume of our stock could decline.

The trading market for our common stock relies, in part, on the research and reports that industry or financial analysts publish about us or our business. We do not have control over these analysts. There can be no assurance that existing analysts will continue to cover us or that new analysts will begin to cover us. There is also no assurance that any covering analysts will provide favorable coverage. If one or more of the analysts covering our business downgrade their evaluations of our stock or publish inaccurate or unfavorable research about our business, or provide more favorable relative recommendations about our competitors, the price of our stock could decline. If one or more of these analysts cease to cover our stock, we could lose visibility in the market for our stock, which in turn could cause our stock price and trading volume to decline.

Unfavorable global economic conditions could adversely affect our business, financial condition, stock price and results of operations.

Our results of operations could be adversely affected by general conditions in the global economy and in the global financial markets. For example, the 2008 global financial crisis caused extreme volatility and disruptions in the capital and credit markets. A severe or prolonged economic downturn resulting from the COVID-19 pandemic could result in a variety of risks to our business, including weakened demand for any product candidates we may develop. A weak or declining economy could also strain our suppliers, possibly resulting in supply disruption. If the current equity and credit markets deteriorate, it may make any necessary debt or equity financing more difficult, more costly, and more dilutive. Failure to secure any necessary financing in a timely manner and on favorable terms could impair our ability to achieve our growth strategy, could harm our financial performance and stock price and could require us to delay or abandon clinical development plans. In addition, there is a risk that our current or future service providers, manufacturers or other collaborators may not survive such difficult economic times, which could directly affect our ability to attain our operating goals on schedule and on budget. We cannot anticipate all of the ways in which the current economic climate and financial market conditions could adversely impact our business.

Our executive officers and directors and their affiliates, if they choose to act together, have the ability to significantly influence all matters submitted to stockholders for approval.

Our executive officers and directors and their affiliates, in the aggregate, beneficially owned shares representing approximately 42.9% of our common stock as of June 30, 2021. As a result, if these stockholders were to choose to act together, they would be able to significantly influence all matters submitted to our stockholders for approval, as well as our management and affairs, even though some of these persons or entities may have interests different than yours. For example, these stockholders, if they choose to act together, could significantly influence the election of directors and approval of any merger, consolidation or sale of all or substantially all of our assets.

This concentration of ownership may:

- delay, defer or prevent a merger, consolidation or sale of all or substantially all of our assets that may be desired by other stockholders;
- delay, defer or prevent a change in control transaction involving us that other stockholders may desire; or
- entrench our management and board of directors.

We have broad discretion in the use of our cash and cash equivalents and may not use them effectively.

Our management has broad discretion in the application of our cash, cash equivalents and marketable securities and could use such funds in ways that do not improve our results of operations or enhance the value of our common stock or in ways that our stockholders may not agree with. The failure by our management to apply these funds effectively could result in financial losses that could cause the price of our common stock to decline and delay the development of our product candidates. Pending their use, we may invest these funds in a manner that does not produce income or that loses value.

Because we do not anticipate paying any cash dividends on our capital stock in the foreseeable future, capital appreciation, if any, will be the sole source of gain for our stockholders.

We have never declared or paid cash dividends on our capital stock. We currently intend to retain all of our future earnings, if any, to finance the growth and development of our business. As a result, capital appreciation, if any, of our common stock will be the sole source of gain for our stockholders for the foreseeable future.

A significant portion of our total outstanding shares may be sold into the market in the near future, which could cause the market price of our common stock to drop significantly, even if our business is doing well.

Sales of a substantial number of shares of our common stock in the public market, or the perception in the market that the holders of a large number of shares intend to sell shares, could reduce the market price of our common stock or impair our ability to raise capital through the sale of equity securities in the future. As of July 31, 2021, we had 51,278,464 shares of common stock outstanding.

All of our outstanding shares of common stock are available for sale in the public market, subject to applicable securities laws.

Moreover, holders of a substantial number of shares of our common stock and shares of our common stock issuable upon exercise of outstanding options have rights, subject to specified conditions, to require us to file registration statements covering their shares or to include their shares in registration statements that we may file for ourselves or other stockholders. We have also filed a registration statement on Form S-8 to register all of the shares of common stock that we are able to issue under our equity compensation plans. Shares registered under these registration statements on Form S-8 can be freely sold in the public market upon issuance, subject to volume limitations applicable to affiliates, vesting arrangements and exercise of options.

We are an “emerging growth company” and a “smaller reporting company,” and the reduced disclosure requirements applicable to emerging growth companies and smaller reporting companies may make our common stock less attractive to investors.

We are an “emerging growth company,” or EGC, as defined in the Jumpstart Our Business Startups Act of 2012, or the JOBS Act. We may remain an EGC until December 31, 2025, although if the market value of our common stock that is held by non-affiliates exceeds \$700.0 million as of any June 30 before that time or if we have annual gross revenues of \$1.07 billion or more in any fiscal year, we would cease to be an EGC as of December 31 of the applicable year. We also would cease to be an EGC if we issue more than \$1.0 billion of non-convertible debt over a three-year period. For so long as we remain an EGC, we are permitted and intend to rely on exemptions from certain disclosure requirements that are applicable to other public companies that are not EGCs. These exemptions include:

- not being required to comply with the auditor attestation requirements in the assessment of our internal control over financial reporting;

- not being required to comply with any requirement that may be adopted by the Public Company Accounting Oversight Board regarding mandatory audit firm rotation or a supplement to the auditor's report providing additional information about the audit and the financial statements;
- reduced disclosure obligations regarding executive compensation; and
- exemptions from the requirements of holding a nonbinding advisory vote on executive compensation and stockholder approval of any golden parachute payments not previously approved.

Even after we no longer qualify as an emerging growth company, we may continue to qualify as a smaller reporting company, which would allow us to take advantage of many of the same exemptions from disclosure requirements, including reduced disclosure obligations regarding executive compensation in our periodic reports and proxy statements. In addition, if we are a smaller reporting company with less than \$100 million in annual revenue, we would not be required to comply with the auditor attestation requirements of Section 404 of the Sarbanes-Oxley Act of 2002, or Section 404.

We cannot predict whether investors will find our common stock less attractive if we rely on these exemptions. If some investors find our common stock less attractive as a result, there may be a less active trading market for our common stock and our stock price may be more volatile.

In addition, the JOBS Act permits an EGC to take advantage of an extended transition period to comply with new or revised accounting standards applicable to public companies until those standards would otherwise apply to private companies. We have elected to take advantage of such extended transition period, which means that when a standard is issued or revised and it has different application dates for public or private companies, we will adopt the new or revised standard at the time private companies adopt the new or revised standard and will do so until such time that we either irrevocably elect to "opt out" of such extended transition period or no longer qualify as an EGC. We may choose to early adopt any new or revised accounting standards whenever such early adoption is permitted for private companies.

We have incurred and will continue to incur increased costs as a result of operating as a public company, and our management has devoted and will continue to be required to devote substantial time to new compliance initiatives and corporate governance practices.

As a public company, and particularly after we are no longer an EGC or a smaller reporting company, we will incur significant legal, accounting and other expenses that we did not previously incur as a private company. The Sarbanes-Oxley Act of 2002, the Dodd-Frank Wall Street Reform and Consumer Protection Act, the listing requirements of the Nasdaq Global Select Market and other applicable securities rules and regulations impose various requirements on public companies, including establishment and maintenance of effective disclosure and financial controls and corporate governance practices. Our management and other personnel devote and will need to continue to devote a substantial amount of time to these compliance initiatives. Moreover, these rules and regulations will increase our legal and financial compliance costs, particularly as we hire additional financial and accounting employees to meet public company internal control and financial reporting requirements and will make some activities more time-consuming and costly compared to when we were a private company. For example, we expect that these rules and regulations may make it more difficult and more expensive for us to obtain director and officer liability insurance, and we might be forced to accept reduced policy limits and coverage or incur substantially higher costs to obtain the same or similar coverage. The impact of these events could also make it more difficult for us to attract and retain qualified members of our board of directors.

We are evaluating these rules and regulations and cannot predict or estimate the amount of additional costs we may incur or the timing of such costs. These rules and regulations are often subject to varying interpretations, in many cases due to their lack of specificity, and, as a result, their application in practice may evolve over time as new guidance is provided by regulatory and governing bodies. This could result in continuing uncertainty regarding compliance matters and higher costs necessitated by ongoing revisions to disclosure and governance practices. We intend to invest resources to comply with evolving laws, regulations and standards, and this investment may result in increased general and administrative expenses and a diversion of management's time and attention from revenue-generating activities to compliance activities. If notwithstanding our efforts to comply with new laws, regulations and standards, we fail to comply, regulatory authorities may initiate legal proceedings against us and our business may be harmed.

Pursuant to Section 404, we will be required to furnish a report by our management on our internal control over financial reporting beginning with our filing of an Annual Report on Form 10-K with the SEC for the year ended December 31, 2021. However, while we remain an EGC or a smaller reporting company with less than \$ 100 million in annual revenue, we will not be required to include an attestation report on internal control over financial reporting issued by our independent registered public accounting firm. To achieve compliance with Section 404 within the prescribed period, we are engaged in a process to document and evaluate our internal control over financial reporting, which is both costly and

challenging. In this regard, we will need to continue to dedicate internal resources, including through hiring additional financial and accounting personnel, potentially engage outside consultants and adopt a detailed work plan to assess and document the adequacy of internal control over financial reporting, continue steps to improve control processes as appropriate, validate through testing that controls are functioning as documented and implement a continuous reporting and improvement process for internal control over financial reporting. Despite our efforts, there is a risk that we will not be able to conclude, within the prescribed timeframe or at all, that our internal control over financial reporting is effective as required by Section 404. If we identify one or more material weaknesses in our internal control over financial reporting, it could result in an adverse reaction in the financial markets due to a loss of confidence in the reliability of our financial statements.

If we fail to maintain an effective system of internal control over financial reporting, we may not be able to accurately report our financial results or prevent fraud. As a result, stockholders could lose confidence in our financial and other public reporting, which would harm our business and the trading price of our common stock.

Effective internal control over financial reporting is necessary for us to provide reliable financial reports and, together with adequate disclosure controls and procedures, is designed to prevent fraud. Any failure to implement required new or improved controls, or difficulties encountered in their implementation could cause us to fail to meet our reporting obligations. In addition, any testing by us conducted in connection with Section 404, or any subsequent testing by our independent registered public accounting firm, may reveal deficiencies in our internal control over financial reporting that are deemed to be material weaknesses or that may require prospective or retroactive changes to our financial statements or identify other areas for further attention or improvement. Inferior internal controls could also cause investors to lose confidence in our reported financial information, which could harm our business and have a negative effect on the trading price of our stock.

We are required to disclose changes made in our internal controls and procedures on a quarterly basis and our management is required to assess the effectiveness of these controls annually. However, for as long as we are an EGC under the JOBS Act or a smaller reporting company with less than \$100 million in annual revenue, our independent registered public accounting firm will not be required to attest to the effectiveness of our internal control over financial reporting pursuant to Section 404. We could be an EGC for up to five years. An independent assessment of the effectiveness of our internal control over financial reporting could detect problems that our management's assessment might not. Undetected material weaknesses in our internal control over financial reporting could lead to financial statement restatements and require us to incur the expense of remediation, which could have a negative effect on the trading price of our stock.

Provisions in our corporate charter documents and under Delaware law could make an acquisition of our company, which may be beneficial to our stockholders, more difficult and may prevent attempts by our stockholders to replace or remove our current directors and members of management.

Provisions in our restated certificate of incorporation and our amended and restated bylaws may discourage, delay or prevent a merger, acquisition or other change in control of our company that stockholders may consider favorable, including transactions in which our stockholders might otherwise receive a premium for their shares. These provisions could also limit the price that investors might be willing to pay in the future for shares of our common stock, thereby depressing the market price of our common stock. In addition, because our board of directors is responsible for appointing the members of our management team, these provisions may frustrate or prevent any attempts by our stockholders to replace or remove our current management by making it more difficult for stockholders to replace members of our board of directors. Among other things, these provisions:

- establish a classified board of directors such that only one of three classes of directors is elected each year;
- allow the authorized number of our directors to be changed only by resolution of our board of directors;
- limit the manner in which stockholders can remove directors from our board of directors;
- establish advance notice requirements for stockholder proposals that can be acted on at stockholder meetings and nominations to our board of directors;
- require that stockholder actions must be effected at a duly called stockholder meeting and prohibit actions by our stockholders by written consent;
- limit who may call stockholder meetings;
- authorize our board of directors to issue preferred stock without stockholder approval, which could be used to institute a "poison pill" that would work to dilute the stock ownership of a potential hostile acquirer, effectively preventing acquisitions that have not been approved by our board of directors; and

- require the approval of the holders of at least 75% of the votes that all our stockholders would be entitled to cast to amend or repeal specified provisions of our certificate of incorporation or bylaws.

Moreover, because we are incorporated in Delaware, we are governed by the provisions of Section 203 of the Delaware General Corporation Law, or the DGCL, which prohibits a person who owns in excess of 15% of our outstanding voting stock from merging or combining with us for a period of three years after the date of the transaction in which the person acquired in excess of 15% of our outstanding voting stock, unless the merger or combination is approved in a prescribed manner.

Our restated certificate of incorporation designates the Court of Chancery of the State of Delaware and the federal district courts of the United States of America as the sole and exclusive forum for certain types of actions and proceedings that may be initiated by our stockholders, which could limit our stockholders' ability to obtain a favorable judicial forum for disputes with us or our directors, officers and employees.

Our restated certificate of incorporation provides that, unless we consent in writing to the selection of an alternative forum, the Court of Chancery of the State of Delaware (or, if the Court of Chancery of the State of Delaware does not have jurisdiction, the federal district court for the District of Delaware) will be the sole and exclusive forum for the following types of actions or proceedings under Delaware statutory or common law:

- any derivative action or proceeding brought on our behalf;
- any action asserting a claim of breach of a fiduciary duty owed by any of our directors, officers, employees or stockholders to our company or our stockholders;
- any action asserting a claim arising pursuant to any provision of the DGCL or as to which the DGCL confers jurisdiction on the Court of Chancery of the State of Delaware; or
- any action asserting a claim arising pursuant to any provision of our certificate of incorporation or bylaws (in each case, as they may be amended from time to time) or governed by the internal affairs doctrine.

These choice of forum provisions will not apply to suits brought to enforce a duty or liability created by the Exchange Act. Furthermore, Section 22 of the Securities Act creates concurrent jurisdiction for federal and state courts over all such Securities Act actions. Accordingly, both state and federal courts have jurisdiction to entertain such claims. To prevent having to litigate claims in multiple jurisdictions and the threat of inconsistent or contrary rulings by different courts, among other considerations, our restated certificate of incorporation provides that, unless we consent in writing to the selection of an alternative forum, the federal district courts of the United States of America shall, to the fullest extent permitted by law, be the sole and exclusive forum for the resolution of any claims arising under the Securities Act. While the Delaware courts have determined that such choice of forum provisions are facially valid, a stockholder may nevertheless seek to bring a claim in a venue other than those designated in the exclusive forum provisions. In such instance, we would expect to vigorously assert the validity and enforceability of the exclusive forum provisions of our restated certificate of incorporation. This may require significant additional costs associated with resolving such action in other jurisdictions and there can be no assurance that the provisions will be enforced by a court in those other jurisdictions.

These exclusive forum provisions may limit the ability of our stockholders to bring a claim in a judicial forum that such stockholders find favorable for disputes with us or our directors, officers or employees, which may discourage such lawsuits against us and our directors, officers and employees. If a court were to find the either exclusive forum provision contained in our restated certificate of incorporation to be inapplicable or unenforceable in an action, we may incur further significant additional costs associated with resolving such action in other jurisdictions, all of which could materially adversely affect our business, financial condition and operating results.

General Risk Factors

Changes in patent law in the United States or worldwide could diminish the value of patents in general, thereby impairing our ability to protect any product candidates we may develop and our technology.

Changes in either the patent laws or interpretation of patent laws in the United States and worldwide, including patent reform legislation such as the Leahy-Smith America Invents Act, or the Leahy-Smith Act, could increase the uncertainties and costs surrounding the prosecution of any owned or in-licensed patent applications and the maintenance, enforcement or defense of any current in-licensed issued patents and issued patents we may own or in-license in the future. The Leahy-Smith Act includes a number of significant changes to U.S. patent law. These changes include provisions that affect the way patent applications are prosecuted, redefine prior art, provide more efficient and cost-effective avenues for competitors to challenge the validity of patents, and enable third-party submission of prior art to the USPTO during patent prosecution and additional procedures to attack the validity of a patent at USPTO-administered post-grant proceedings,

including post-grant review, inter partes review, and derivation proceedings. Assuming that other requirements for patentability are met, prior to March 2013, in the United States, the first to invent the claimed invention was entitled to the patent, while outside the United States, the first to file a patent application was entitled to the patent. After March 2013, under the Leahy-Smith Act, the United States transitioned to a first-to-file system in which, assuming that the other statutory requirements for patentability are met, the first inventor to file a patent application will be entitled to the patent on an invention regardless of whether a third party was the first to invent the claimed invention. As such, the Leahy-Smith Act and its implementation could increase the uncertainties and costs surrounding the prosecution of our patent applications and the enforcement or defense of our in-licensed issued patents and issued patents we may own or in-license in the future, all of which could have a material adverse effect on our business, financial condition, results of operations and prospects. Since patent applications in the United States and most other countries are confidential for a period of time after filing or until issuance, we cannot be certain that we or our licensors were the first to either (i) file any patent application related to our product candidates or (ii) invent any of the inventions claimed in our or our licensor's patents or patent applications.

The America Invents Act also includes a number of significant changes that affect the way patent applications will be prosecuted and also may affect patent litigation. These include allowing third party submission of prior art to the USPTO during patent prosecution and additional procedures to attack the validity of a patent by USPTO administered post-grant proceedings, including post-grant review, inter partes review, and derivation proceedings. Because of a lower evidentiary standard in USPTO proceedings compared to the evidentiary standard in United States federal courts necessary to invalidate a patent claim, a third party could potentially provide evidence in a USPTO proceeding sufficient for the USPTO to hold a claim unpatentable even though the same evidence would be insufficient to invalidate the claim if first presented in a district court action. Accordingly, a third party may attempt to use the USPTO procedures to review patentability of our patent claims that would not have been invalidated if first challenged by the third party as a defendant in a district court action. Therefore, the America Invents Act and its implementation could increase the uncertainties and costs surrounding the prosecution of our owned or in-licensed patent applications and the enforcement or defense of our owned or in-licensed issued patents, all of which could have a material adverse effect on our business, financial condition, results of operations, and prospects.

In addition, the patent positions of companies in the development and commercialization of biologics and pharmaceuticals are particularly uncertain. Recent U.S. Supreme Court rulings have narrowed the scope of patent protection available in certain circumstances and weakened the rights of patent owners in certain situations. As one example, in the case *Assoc. for Molecular Pathology v. Myriad Genetics, Inc.*, the U.S. Supreme Court held that certain claims to DNA molecules are not patentable simply because they have been isolated from surrounding material. Moreover, in 2012, the USPTO issued a guidance memo to patent examiners indicating that process claims directed to a law of nature, a natural phenomenon or a naturally occurring relation or correlation that do not include additional elements or steps that integrate the natural principle into the claimed invention such that the natural principle is practically applied and the claim amounts to significantly more than the natural principle itself should be rejected as directed to patent-ineligible subject matter. Accordingly, in view of the guidance memo, there can be no assurance that claims in our patent rights covering any product candidates we may develop or our technology will be held by the USPTO or equivalent foreign patent offices or by courts in the United States or in foreign jurisdictions to cover patentable subject matter. This combination of events has created uncertainty with respect to the validity and enforceability of patents once obtained. Depending on future actions by the U.S. Congress, the federal courts and the USPTO, the laws and regulations governing patents could change in unpredictable ways that could have a material adverse effect on our patent rights and our ability to protect, defend and enforce our patent rights in the future.

Changes in tax laws or regulations or in their implementation or interpretation may adversely affect our business and financial condition.

New income, sales, use or other tax laws, statutes, rules, regulations or ordinances could be enacted at any time, which could adversely affect our business or financial condition. Further, existing tax laws, statutes, rules, regulations or ordinances could be interpreted, changed, modified or applied adversely to us. For example, on December 22, 2017, the U.S. government enacted the Tax Act, which significantly reformed the Code. The Tax Act, among other things, contained significant changes to corporate taxation, including a reduction of the corporate tax rate from a top marginal rate of 35% to a flat rate of 21%, the limitation of the tax deduction for net interest expense to 30% of adjusted taxable income (except for certain small businesses), the limitation of the deduction for NOLs arising in taxable years beginning after December 31, 2017 to 80% of current year taxable income and elimination of NOL carrybacks for losses arising in taxable years beginning after December 31, 2017 (though any such NOLs may be carried forward indefinitely), the imposition of a one-time taxation of offshore earnings at reduced rates regardless of whether they are repatriated, the elimination of U.S. tax on foreign earnings (subject to certain important exceptions), the allowance of immediate deductions for certain new investments instead of deductions for depreciation expense over time, and the modification or repeal of many business deductions and credits.

In addition, as part of Congress' response to the COVID-19 pandemic, the Families First Coronavirus Response Act, or FFCR Act, was enacted on March 18, 2020, and the CARES Act was enacted on March 27, 2020 and COVID relief provisions were included in the Consolidated Appropriations Act 2021, or CAA, which was enacted on December 27, 2020. Each of these laws contains numerous tax provisions. In particular, the CARES Act retroactively and temporarily (for taxable years beginning before January 1, 2021) suspends application of the 80%-of-income limitation on the use of NOLs, which was enacted as part of the Tax Act. It also provides that NOLs arising in any taxable year beginning after December 31, 2017, and before January 1, 2021 are generally eligible to be carried back up to five years. The CARES Act also temporarily (for taxable years beginning in 2019 or 2020) relaxes the limitation of the tax deductibility for net interest expense by increasing the limitation from 30 to 50% of adjusted taxable income.

Regulatory guidance under the Tax Act, the FFCR Act, the CARES Act and the CAA is and continues to be forthcoming, and such guidance could ultimately increase or lessen impact of these laws on our business and financial condition. It is also possible that Congress will enact additional legislation in connection with the COVID-19 pandemic, some of which could have an impact on our company. In addition, it is uncertain if and to what extent various states will conform to the Tax Act, the FFCR Act, the CARES Act or the CAA.

Our disclosure controls and procedures may not prevent or detect all errors or acts of fraud.

We are subject to certain reporting requirements of the Securities Exchange Act of 1934, as amended, or the Exchange Act. Our disclosure controls and procedures are designed to reasonably assure that information required to be disclosed by us in reports we file or submit under the Exchange Act is accumulated and communicated to management, recorded, processed, summarized and reported within the time periods specified in the rules and forms of the SEC. We believe that any disclosure controls and procedures or internal controls and procedures, no matter how well conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of the control system are met. These inherent limitations include the realities that judgments in decision-making can be faulty, and that breakdowns can occur because of simple error or mistake. Additionally, controls can be circumvented by the individual acts of some persons, by collusion of two or more people or by an unauthorized override of the controls. Accordingly, because of the inherent limitations in our control system, misstatements or insufficient disclosures due to error or fraud may occur and not be detected.

Item 2. Unregistered Sales of Equity Securities and Use of Proceeds.

On September 21, 2020, we closed our initial public offering, or IPO, of our common stock pursuant to which we issued and sold 14,089,314 shares of our common stock, including 1,837,736 shares sold by us pursuant to the full exercise of the underwriters' option to purchase additional shares at a price to the public of \$19.00 per share for aggregate gross proceeds of \$267.7 million.

All of the shares issued and sold in the IPO were registered under the Securities Act of 1933, as amended, pursuant to a Registration Statement on Form S-1 (File No. 333-248414), which was declared effective by the SEC on September 16, 2020. J.P. Morgan Securities LLC, Jefferies LLC, Piper Sandler & Co. and Stifel, Nicolaus & Company, Incorporated acted as joint book-running managers for our IPO.

We received aggregate net proceeds of approximately \$246.4 million after deducting underwriting discounts and commissions and offering expenses payable by us.

As of June 30, 2021, we have used approximately \$96.1 million of the net proceeds from the IPO for the continued research and development of our programs, continued development and enhancement of our proprietary FORCE platform and for working capital and other general corporate purposes. There has been no material change in our planned use of the net proceeds from the offering as described in our final prospectus filed pursuant to Rule 424(b)(4) under the Securities Act with the SEC on September 17, 2020.

Item 3. Defaults Upon Senior Securities.

Not Applicable.

Item 4. Mine Safety Disclosures.

Not Applicable.

Item 5. Other Information.

None.

Item 6. Exhibits.

Exhibit Number	Description
10.1*	Lease by and between Dyne Therapeutics, Inc. and BP3-BOS1 1560 Trapelo Road LLC, dated as of December 4, 2020, as amended.
10.2*	Severance agreement between Dyne Therapeutics, Inc. and Romesh Subramanian dated as of June 2, 2021
31.1*	Certification of Principal Executive Officer Pursuant to Rules 13a-14(a) and 15d-14(a) under the Securities Exchange Act of 1934, as Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
31.2*	Certification of Principal Financial Officer Pursuant to Rules 13a-14(a) and 15d-14(a) under the Securities Exchange Act of 1934, as Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
32.1†	Certification of Principal Executive Officer Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
32.2†	Certification of Principal Financial Officer Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
101.INS	Inline XBRL Instance Document
101.SCH	Inline XBRL Taxonomy Extension Schema Document
101.CAL	Inline XBRL Taxonomy Extension Calculation Linkbase Document
101.DEF	Inline XBRL Taxonomy Extension Definition Linkbase Document
101.LAB	Inline XBRL Taxonomy Extension Label Linkbase Document
101.PRE	Inline XBRL Taxonomy Extension Presentation Linkbase Document
104	The cover page from the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2021, has been formatted in Inline XBRL.

* Filed herewith.

† The certifications attached as Exhibits 32.1 and 32.2 that accompany this Quarterly Report, are deemed furnished and not filed with the Securities and Exchange Commission and are not to be incorporated by reference into any filing of Dyne Therapeutics, Inc. under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, as amended, whether made before or after the date of this Quarterly Report, irrespective of any general incorporation language contained in such filing.

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

DYNE THERAPEUTICS, INC.

Date: August 5, 2021

By: _____
/s/ Joshua Brumm
Joshua Brumm
President and Chief Executive Officer
(Principal Executive Officer)

Date: August 5, 2021

By: _____
/s/ Richard Scalzo
Richard Scalzo
Vice President, Accounting and Administration and Treasurer
(Principal Financial and Accounting Officer)

1560 TRAPELO ROAD

LEASE

BP3-BOS1 1560 TRAPELO ROAD LLC,
a Delaware limited liability company,

as Landlord,

and

DYNE THERAPEUTICS, INC.,
a Delaware corporation,

as Tenant

SUMMARY OF BASIC LEASE INFORMATION

This Summary of Basic Lease Information (“**Summary**”) is hereby incorporated into and made a part of the attached Lease. Each reference in the Lease to any term of this Summary shall have the meaning as set forth in this Summary for such term. In the event of a conflict between the terms of this Summary and the Lease, the terms of the Lease shall prevail. Any capitalized terms used herein and not otherwise defined herein shall have the meaning as set forth in the Lease.

TERMS OF LEASE

(References are to the Lease)

	DESCRIPTION
1. Date:	December 4, 2020
2. Landlord:	BP3-BOS1 1560 Trapelo Road LLC, a Delaware limited liability company
3. Address of Landlord (Section 24.19):	For notices to Landlord: BP3-BOS1 1560 Trapelo Road LLC, 4380 La Jolla Village Drive, Suite 230 San Diego, CA 92122 Attention: W. Neil Fox, III, CEO with a copy to: Allen Matkins Leck Gamble Mallory & Natsis LLP 600 West Broadway, 27 th Floor San Diego, CA 92101 Attention: Martin L. Togni, Esq. For payment of Rent only: BP3-BOS1 1560 Trapelo Road LLC, P.O. Box 200757 Pittsburg, PA 15251-0757
4. Tenant:	DYNE THERAPEUTICS, INC., a Delaware corporation
5. Address of Tenant (Section 24.19):	Dyne Therapeutics, Inc. 830 Winter Street

Summary P-1

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TERMS OF LEASE

(References are to the Lease)

DESCRIPTION

Waltham, Massachusetts 02451
Attention: Richard Scalzo
(Prior to Lease Commencement Date)

and

1560 Trapelo Road
Waltham, MA 02451-7306
Attention: Richard Scalzo
(After Lease Commencement Date)

6. Premises (Article 1):

6.1 Premises: The entirety of the Building, consisting of 68,187 rentable square feet of space located in the Building (as defined below), as depicted on **Exhibit A** attached hereto.

6.2 Building: The three-story building whose address is 1560 Trapelo Road, Waltham, Massachusetts (the "**Building**").

7. Term (Article 2):

7.1 Lease Term: Commencing on the Lease Commencement Date and expiring on the Lease Expiration Date, approximately eight (8) years and six (6) months.

7.2 Lease Commencement Date: The earlier of (i) the date Tenant commences business operations in the Premises (as distinguished from the mere preparation of the Premises for its occupancy, including the undertaking of any Tenant Improvements or other work, moving into the Premises and the installation of furniture, fixtures, or equipment in the Premises), or (ii) the date the Premises are Ready for Occupancy (as defined in the Tenant Work Letter attached hereto as **Exhibit B**), which Lease Commencement Date is anticipated to be July 14, 2021 (the "Anticipated Lease Commencement Date").

7.3 Rent Commencement Date: The date that is six (6) months after the Lease Commencement Date.

7.4 Lease Expiration Date: The last day of the month in which the eighth (8th) annual anniversary of the Rent Commencement Date occurs.

Summary P-2

8. Base Rent (Article 3):

Months of Lease Term	Annual Base Rent****	Monthly Installment of Base Rent*	Annual Rental Rate per Rentable Square Foot**
***1–12	\$ 4,602,622.50	\$ 383,551.88	\$ 67.50
13–24	\$ 4,740,701.18	\$ 395,058.43	\$ 69.53
25–36	\$ 4,882,922.22	\$ 406,910.19	\$ 71.61
37–48	\$ 5,029,409.89	\$ 419,117.49	\$ 73.76
49–60	\$ 5,180,292.19	\$ 431,691.02	\$ 75.97
61–72	\$ 5,335,700.96	\$ 444,641.75	\$ 78.25
73–84	\$ 5,495,771.99	\$ 457,981.00	\$ 80.60
85–96	\$ 5,660,645.15	\$ 471,720.43	\$ 83.02

TERMS OF LEASE

(References are to the Lease)

DESCRIPTION

- * The initial monthly installment of Base Rent amount was calculated by multiplying the initial monthly Base Rent per rentable square foot amount by the number of rentable square feet of space in the Premises, and the Annual Base Rent amount was calculated by multiplying the initial monthly installment of Base Rent amount by twelve (12). In all subsequent Base Rent payment periods during the Lease Term commencing on the first anniversary of the Rent Commencement Date, the calculation of each monthly installment of Base Rent amount reflects an annual increase of three percent (3%) and each Annual Base Rent amount was calculated by multiplying the corresponding monthly installment of Base Rent amount by twelve (12).
 - ** The amounts identified in the column entitled “Annual Rental Rate per Rentable Square Foot” are rounded amounts provided for information purposes only.
 - *** Month 1 shall begin on the Rent Commencement Date (provided that if the Rent Commencement Date does not occur on the first day of a calendar month, then Month 1 shall mean the partial month in which the Rent Commencement Date occurs plus the following full calendar month). For the avoidance of doubt, there is no Base Rent due from the period beginning on the Commencement Date and end on the Rent Commencement Date.
 - **** Expressed on an annualized basis even though the applicable period may be longer or shorter than twelve (12) months.
9. Tenant’s Share of Operating Expenses, Tax Expenses and Utilities Costs (Section 4.2.6): 100% (68,187 rentable square feet within the Building).
 10. Letter of Credit/Security Deposit (Article 20): \$2,301,311.20, subject, however, to potential reduction as provided in Article 20 hereof
 11. Brokers (Section 24.25): Cushman & Wakefield U.S., Inc. representing Landlord, and CBRE, Inc. representing Tenant.
 12. Parking (Article 23): All of the parking spaces in the Project, being two hundred three (203) parking spaces, three of which are equipped with two (2) electric vehicle charging stations. 125 parking spaces are in the below ground and above ground portion of the parking garage serving the Building and 78 parking spaces are in the surface lot adjacent to the Premises.

TABLE OF CONTENTS

	<u>Page</u>
ARTICLE 1 PROJECT, BUILDING AND PREMISES	1
ARTICLE 2 LEASE TERM	2
ARTICLE 3 BASE RENT	3
ARTICLE 4 ADDITIONAL RENT	3
ARTICLE 5 USE OF PREMISES; HAZARDOUS MATERIALS; ODORS AND EXHAUST	9
ARTICLE 6 SERVICES AND UTILITIES	14
ARTICLE 7 REPAIRS	15
ARTICLE 8 ADDITIONS AND ALTERATIONS	18
ARTICLE 9 COVENANT AGAINST LIENS	20
ARTICLE 10 INDEMNIFICATION AND INSURANCE	20
ARTICLE 11 DAMAGE AND DESTRUCTION	23
ARTICLE 12 CONDEMNATION	24
ARTICLE 13 COVENANT OF QUIET ENJOYMENT	25
ARTICLE 14 ASSIGNMENT AND SUBLETTING	25
ARTICLE 15 SURRENDER; OWNERSHIP AND REMOVAL OF PERSONAL PROPERTY	28
ARTICLE 16 HOLDING OVER	29
ARTICLE 17 ESTOPPEL CERTIFICATES	29
ARTICLE 18 SUBORDINATION	30
ARTICLE 19 TENANT’S DEFAULTS; LANDLORD’S REMEDIES	30
ARTICLE 20 LETTER OF CREDIT/SECURITY DEPOSIT	34
ARTICLE 21 COMPLIANCE WITH LAW	38
ARTICLE 22 ENTRY BY LANDLORD	38
ARTICLE 23 PARKING	39
ARTICLE 24 MISCELLANEOUS PROVISIONS	39

EXHIBITS:

Exhibit A	Outline of Floor Plan of Premises
Exhibit A-1	Site Plan of Project
Exhibit A-2	Legal Description of Land
Exhibit B	Tenant Work Letter
Exhibit C	Confirmation of Lease Terms/Amendment to Lease
Exhibit D	Rules and Regulations
Exhibit E	Form of Subordination, Non-Disturbance and Attornment Agreement
Exhibit F	Form of Letter of Credit
Exhibit G	Form of Notice of Lease
Exhibit H	List of Qualifications of Service Providers and Agreements
Exhibit I	Repair, Maintenance and Improvements Specifications
Rider 1	Extension Option Rider

(ii)

908728.01/SD
374622.00146/4-30-21/MLT/bp

ActiveUS 186012966v.2

INDEX

	<u>Page(s)</u>
Accountant	11
ADA	2
Additional Rent	4
Affected Areas	14
Affiliate Assignee	36
Affiliates	36
Allowance	<i>Exhibit B</i>
Alterations	23
Bankruptcy Code	40
Base Rent	4
Base, Shell and Core	<i>Exhibit B</i>
Books and Records	21
Brokers	56
Building	<i>Summary</i>
Building Documents	21
Building Systems	20
Calendar Year	5
CC&Rs	12
Change Order	<i>Exhibit B</i>
Change Order Tenant Delay Grace Period	<i>Exhibit B</i>
Changes	<i>Exhibit B</i>
Confirmation/Amendment	<i>Exhibit C</i>
Construction	58
Construction Drawings	<i>Exhibit B</i>
Corrective Action	14
Critical Systems	<i>Exhibit G</i>
Cutoff Date	9
Development Drawings	<i>Exhibit B</i>
Documents	13
Environmental Law	12
Environmental Permits	12
Estimate	9
Estimate Statement	9
Estimated Expenses	9
Excluded Changes	49
Exercise Notice	<i>Rider 1</i>
Exit Survey	37
Expense Year	5
Experience	<i>Exhibit G</i>
Extension Option	<i>Rider 1</i>
Extension Rider	<i>Rider 1</i>
Facilities Team	20

	<u>Page(s)</u>
Fair Market Rental Rate	<i>Rider 1</i>
Force Majeure	55
Hazardous Materials	13
Hazardous Materials List	13
HVAC	18
Interest Notice	<i>Rider 1</i>
Interest Rate	10
Landlord	1
Landlord Charging Station	2
Landlord Parties	16
L-C	44
L-C Amount	44
Lease	1
Lease Commencement Date	3
Lease Expiration Date	3
Lease Term	3
Lease Year	3
M&R Reports	21
Maintenance Meeting	21
Management Standard	20
Market Area	<i>Rider 1</i>
MM Request	21
Notice of Termination	40
Notices	55
OFAC	55, 56
Operating Expenses	5
Option Rent	<i>Rider 1</i>
Option Rent Notice	<i>Rider 1</i>
Option Term	<i>Rider 1</i>
Original Tenant	36
Outside Agreement Date	<i>Rider 1</i>
Over-Allowance Amount	<i>Exhibit B</i>
Parking Areas	1
Parking Operator	50
Permitted Uses	12
Premises	1
Project	1
Reduction Date	49
Release	13
Rent	4
Revenue Code	33
Security Deposit	48
Service Agreements	20

	<u>Page(s)</u>
Service Provider	<i>Exhibit G</i>
Service Providers	<i>Exhibit G</i>
Signage	52
Signage Specifications	52
Statement	8
Subject Space	33
Subleasing Costs	35
Summary	1
Systems and Equipment	7
Tax Expenses	7
Tenant	1
Tenant Delays	<i>Exhibit B</i>
Tenant Maintenance Responsibilities	20
Tenant Work Letter	<i>Exhibit B</i>
Tenant's Share	8
Transfer Notice	33
Transfer Premium	34
Transferee	33
Transfers	33
Utilities Costs	8
Vivarium	<i>Exhibit B</i>
Wi-Fi Network	25
Working Drawings	<i>Exhibit B</i>

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LEASE

This Lease, which includes the preceding Summary and the exhibits attached hereto and incorporated herein by this reference (the Lease, the Summary and the exhibits to be known sometimes collectively hereafter as the “**Lease**”), dated as of the date set forth in Section 1 of the Summary, is made by and between BP3-BOS1 1560 TRAPELO ROAD LLC, a Delaware limited liability company (“**Landlord**”), and DYNE THERAPEUTICS, INC., a Delaware corporation (“**Tenant**”).

ARTICLE 1

PROJECT, BUILDING AND PREMISES

1.1 Project, Building and Premises.

1.1.1 Premises. Upon and subject to the terms, covenants and conditions hereinafter set forth in this Lease, Landlord hereby leases to Tenant and Tenant hereby leases from Landlord the premises described in Section 6.1 of the Summary (the “**Premises**”), which Premises consist of the Building (as defined in Section 6.2 of the Summary) and located within the Project (as defined below). The floor plan of the Premises is attached hereto as Exhibit A.

1.1.2 Building and Project. The Building consists of three (3) floors with basement for a total of 68,187 rentable square feet and is commonly known as “1560 Trapelo Road,” located on 2.42 acres of land in the City of Waltham, Massachusetts. The term “**Project**” as used in this Lease, shall mean, collectively: (i) the Building; (ii) any outside plaza areas, walkways, driveways, courtyards, private streets, transportation facilitation areas and other improvements and facilities now or hereafter constructed on the Land described on Exhibit A-2 (the “**Lot**”). The site plan depicting the configuration of the Project is attached hereto as Exhibit A-1. The Building contains surface and underground parking areas (“**Parking Areas**”). Tenant shall have the exclusive use of the Project. Notwithstanding the foregoing or anything contained in this Lease to the contrary, (1) Landlord has no right or obligation to expand or otherwise make any improvements within the Project, including, without limitation, any of the outside plaza areas, walkways, driveways, courtyards, public and private streets, transportation facilitation areas and other improvements and facilities which may be depicted on Exhibit A-1 attached hereto, other than Landlord’s obligations (if any) specifically set forth in the Tenant Work Letter attached hereto as Exhibit B and as otherwise set forth in this Lease. Subject to Force Majeure events (as defined in Section 25.17 below) and other emergency events, Tenant shall have access to the Premises, including, the loading area on the east side of Building, twenty-four (24) hours per day, seven (7) days per week throughout the Lease Term.

1.1.3 Tenant’s and Landlord’s Rights. Tenant shall have the right to the exclusive use of the Building and the Project. Tenant’s use of the Project shall be subject to (A) the provisions of any covenants, conditions and restrictions regarding the use thereof now recorded against the Project, of which Landlord has provided copies to Tenant, and (B) such reasonable, non-discriminatory rules and regulations as Landlord may make from time to time (which shall be provided in writing to Tenant), and (ii) Tenant may not go on the roof of Building without Landlord’s prior consent (which may be withheld in Landlord’s sole and absolute discretion) and without otherwise being accompanied by a representative of Landlord. Landlord reserve the right from time to time (1) to make any repairs and/or replacements in or to the Project or any portion or elements thereof; and (2) to close temporarily any of the common areas while engaged in making repairs to the Project. Notwithstanding anything above to the contrary, Landlord’s actions pursuant to this Section 1.1.3 shall not interfere with Tenant’s use and enjoyment of, or access to, the Premises or Tenant’s parking rights nor increase Tenant’s obligations under this Lease or decrease Tenant’s rights under this Lease to more than a de minimis extent.

1.2 Condition of Premises. Except as expressly set forth in this Lease and in the Tenant Work Letter, Landlord shall not be obligated to provide or pay for any improvement, remodeling or refurbishment work or services related to the improvement, remodeling or refurbishment of the Premises, and Tenant shall accept the Premises in its “As Is” condition on the Lease Commencement Date; provided, however, that the Systems and Equipment (as defined in Section 4.2.4 below) serving the Building shall be in good working order and condition, the Premises will be broom-

clean condition, free and clear of all occupants and personal property, and the Building and Project will be compliant with all applicable laws, rules, orders, and regulations, including, without limitation, the Americans with Disabilities Act of 1990 (as amended, the “ADA”). Tenant also acknowledges that, except as otherwise expressly set forth in this Lease, neither Landlord nor any agent of Landlord has made any representation or warranty with respect to the Premises, the Building, or the Project or their condition, or with respect to the suitability thereof for the conduct of Tenant’s business (including, but not limited to, any zoning/conditional use permit requirements which shall be Tenant’s responsibility and Tenant’s failure to obtain any such zoning/use permits (if any are required) shall not affect Tenant’s obligations under this Lease). Notwithstanding the foregoing, Landlord represents and warrants to Tenant that, as of the Effective Date, the Property is zoned to permit laboratory, office, life science, research and development uses as of right. The taking of possession of the Premises by Tenant shall conclusively establish that the Premises (including the Tenant Improvements therein), the Building and the Project were at such time complete and in good, sanitary and satisfactory condition, subject to Landlord’s representations, warranties and obligations expressly set forth in the Lease and, except as provided herein, without any obligation on Landlord’s part to make any alterations, upgrades or improvements thereto.

1.3 **Rentable Square Feet.** Landlord and Tenant agree that the rentable square feet of the Premises is as set forth in Section 6.1 of the Summary and the same shall not be changed except in connection with a change in the physical size (but for the avoidance of doubt, not the remeasurement) of the Premises; provided, however, that any such change shall utilize the same measurement standards utilized by Landlord (and consistent with the measurement standards and calculations which were provided to Tenant by Landlord via email prior to the execution of this Lease) in connection with the initial measurement of the Premises (and reflected in the rentable square feet set forth in Section 6.1 of the Summary).

1.4 **Landlord Charging Stations.** Landlord has previously installed two (2) electric vehicle charging station at the Project for the use of tenants of the Building who drive electric vehicles (“**Landlord Charging Station**”); each such Landlord Charging Station has two (2) connections to charge two (2) vehicles. The cost of operating, maintaining and repairing the Landlord Charging Station (net of any revenue therefrom) may be included in Operating Expenses. Tenant’s obligations under this Lease are not contingent or conditioned upon the ability of Tenant’s Parties to use the Landlord Charging Station or upon the existence of Landlord Charging Station; provided that Landlord shall maintain and repair the existing Landlord Charging Stations in good work order and condition throughout the Lease Term.

ARTICLE 2

LEASE TERM

The term of this Lease (the “**Lease Term**”) shall be as set forth in Section 7.1 of the Summary and shall commence on the date (the “**Lease Commencement Date**”) set forth in Section 7.2 of the Summary (subject, however, to the terms of the Tenant Work Letter), and shall terminate on the date (the “**Lease Expiration Date**”) set forth in Section 7.4 of the Summary, unless this Lease is sooner terminated as hereinafter provided. For purposes of this Lease, the term “**Lease Year**” shall mean each consecutive twelve (12)-month period during the Lease Term, provided that the last Lease Year shall end on the Lease Expiration Date. If Landlord does not deliver possession of the Premises to Tenant Ready for Occupancy on or before the anticipated Lease Commencement Date (as set forth in Section 7.2(ii) of the Summary), except as provided below, Landlord shall not be subject to any liability nor shall the validity of this Lease nor the obligations of Tenant hereunder be affected. Following the Lease Commencement Date, Landlord shall deliver to Tenant a “Confirmation of Lease Terms” in the form attached hereto as **Exhibit C**, setting forth, among other things, the Lease Commencement Date and the Lease Expiration Date, and if accurate, Tenant shall execute and return such confirmation to Landlord within ten (10) business days after Tenant’s receipt thereof, and Landlord shall return the fully executed confirmation within five (5) business day after Landlord’s receipt thereof.

If the Premises are not Ready for Occupancy within sixty (60) days of the Anticipated Lease Commencement Date (“**First Outside Date**”) (as such First Outside Date may be extended on a day per day basis due to any Force Majeure delays (up to a maximum of 60 days of extension on account of Force Majeure delays in the aggregate and an additional 30 days of extension on account of Force Majeure delays occasioned by the COVID-19 pandemic in the aggregate) and Tenant Delays), then Tenant shall receive a credit of one (1) day’s free Base Rent for each day of delay after the 60th day until the Premises are Ready for Occupancy. If the Premises are not Ready for Occupancy within one hundred twenty (120) days of the Anticipated Lease Commencement Date (“**Second Outside Date**”) (as such Second Outside Date may be extended on a day per day basis due to any Force Majeure delays (up to a maximum of 60 days of extension on account of Force Majeure delays in the aggregate and

an additional 30 days of extension on account of Force Majeure delays occasioned by the COVID-19 pandemic in the aggregate) and Tenant Delays), then Tenant shall receive an additional credit of one (1) days' free Base Rent (such that Tenant is receiving a total of two (2) day's free Base Rent for each day of delay after the 120th day until the Premises are Ready for Occupancy. If the Premises are not Ready for Occupancy within two hundred ten (210) days of the Anticipated Lease Commencement Date (the "**Third Outside Date**") (as such Third Outside Date may be extended on a day per day basis due to any Force Majeure Delays (up to a maximum of 50 days of extension on account of Force Majeure delays in the aggregate and an additional 30 days of extension on account of Force Majeure delays occasioned by the COVID-19 pandemic in the aggregate) and Tenant Delays), then this Lease may be terminated by Tenant by written notice to Landlord, and if so terminated (i) the Letter of Credit or Security Deposit (as applicable) and any amounts prepaid by Tenant to Landlord shall be returned by Landlord to Tenant within thirty (30) days of the termination, and (ii) neither Landlord nor Tenant shall have any further rights, duties, or obligations under this Lease, except with respect to the provisions which express survive the expiration or termination of this Lease.

ARTICLE 3

BASE RENT

Commencing on the Rent Commencement Date, Tenant shall pay, without notice or demand, to Landlord at the address set forth in Section 3 of the Summary, or at such other place as Landlord may from time to time designate in writing, in currency or a check for currency which, at the time of payment, is legal tender for private or public debts in the United States of America, base rent ("**Base Rent**") as set forth in Section 8 of the Summary, payable in equal monthly installments as set forth in Section 8 of the Summary in advance on or before the Rent Commencement Date and, thereafter, the first day of each and every month during the Lease Term, without any setoff or deduction whatsoever. Concurrently with Tenant's execution of this Lease, Tenant shall deliver to Landlord an amount equal to \$475,149.74, which amount shall be comprised of the following: (i) the Base Rent payable by Tenant for the Premises for the first (1st) full month of the Lease Term following the Rent Commencement Date (i.e., \$383,551.88); and (ii) the Estimated Expenses (as defined below) payable by Tenant for the Premises for the first (1st) full month of the Lease Term (i.e., \$91,597.86). If any rental payment date (including the Lease Commencement Date with respect to the Base Rent or the Rent Commencement Date with respect to Estimated Expenses) falls on a day of the month other than the first day of such month or if any rental payment is for a period which is shorter than one month, then the rental for any such fractional month shall be a proportionate amount of a full calendar month's rental based on the proportion that the number of days in such fractional month bears to the number of days in the calendar month during which such fractional month occurs. All other payments or adjustments required to be made under the terms of this Lease that require proration on a time basis shall be prorated on the same basis. For the avoidance of doubt, Tenant's obligation for the payment of Base Rent shall commence on the Rent Commencement Date.

ARTICLE 4

ADDITIONAL RENT

4.1 Additional Rent. In addition to paying the Base Rent specified in Article 3 above, but commencing on the Lease Commencement Date, Tenant shall pay as additional rent the sum of the following: (i) Tenant's Share (as such term is defined below) of the annual Operating Expenses for the Project; plus (ii) Tenant's Share of the annual Tax Expenses for the Project; plus (iii) Tenant's Share of the annual Utilities Costs for the Project. Such additional rent, together with any and all other amounts payable by Tenant to Landlord pursuant to the terms of this Lease (including, without limitation, pursuant to Article 6), shall be hereinafter collectively referred to as the "**Additional Rent**." The Base Rent and Additional Rent are herein collectively referred to as the "**Rent**." All amounts due under

this Article 4 as Additional Rent shall be payable for the same periods and in the same manner, time and place as the Base Rent. Without limitation on other obligations of Tenant which shall survive the expiration of the Lease Term, the obligations of Tenant to pay the Additional Rent provided for in this Article 4 on account of the period during the Lease Term shall survive the expiration of the Lease Term.

4.2 Definitions. As used in this Article 4, the following terms shall have the meanings hereinafter set forth:

4.2.1 “**Calendar Year**” shall mean each calendar year in which any portion of the Lease Term falls, through and including the calendar year in which the Lease Term expires.

4.2.2 “**Expense Year**” shall mean each Calendar Year.

4.2.3 “**Operating Expenses**” shall mean all commercially reasonable expenses, costs and amounts of every kind and nature reasonably incurred which Landlord shall pay during any Expense Year because of or in connection with the ownership, management, maintenance, repair, restoration or operation of the Project, including, without limitation, any amounts paid for: (i) intentionally omitted; (ii) the cost of licenses, certificates, permits and inspections, and the cost of contesting the validity or applicability of any governmental enactments which may affect Operating Expenses, and the costs incurred in connection with implementation and operation (by Landlord or any common area association(s) formed for the Project) of any transportation system management program or similar program; (iii) the cost of insurance carried by Landlord, in such amounts as Landlord may reasonably determine or as may be required by any mortgagees of any mortgage or the lessor of any ground lease affecting the Project; (iv) intentionally omitted; (v) any equipment rental agreements or management agreements (provided the only management fees that may be passed through are the reasonable third-party expenses incurred by Landlord’s property manager in connection with providing property management services for the Project) but excluding the rental of any office space provided thereunder); (vi) intentionally omitted; (vii) payments under any easement, license, operating agreement, declaration, restrictive covenant, or instrument pertaining to the sharing of costs by the Project (including but not limited to, the Special Permit defined and described in Article 5 hereof); (viii) intentionally omitted; (ix) amortization (including interest on the unamortized cost) of the cost of acquiring or the rental expense of personal property used in the maintenance, operation and repair of the Project; (x) the cost of any capital improvements or other costs (which are replacements as opposed to new additions or new improvements) (I) which are intended to reduce Operating Expenses, or (II) made to the Project or any portion thereof after the Lease Commencement Date that are required under any governmental law or regulation enacted after the date hereof, or (III) which are incurred due to Landlord’s repairs, maintenance or replacements for the Project; provided, however, that if any such cost described in (I), (II) or (III) above, is a capital expenditure, such cost shall be amortized on a straight line basis (including interest on the unamortized cost) over the period equal to the useful life of such capital items; and (xi) intentionally omitted. Except for a property management contract, for each vendor, supplier, contractor or other service provider that exceeds \$15,000.00, Landlord agrees to competitively bid such contract to at least three (3) qualified firm and Landlord will select the lowest qualified bidder.

Notwithstanding the foregoing, Operating Expenses shall not, however, include: (A) costs of overhead or profit increment paid to Landlord or to subsidiaries or affiliates of Landlord for services in or in connection with the Project to the extent the same exceeds the costs of overhead and profit increment included in the costs of such services which could be obtained from third parties on a competitive basis; (B) depreciation charges, interest and principal payments on mortgages or other debt, ground rental payments and real estate brokerage and leasing commissions; (C) Utilities Costs; (D) Tax Expenses; (E) costs incurred for Landlord’s general overhead and any other expenses not directly attributable to the operation and management of the Building or the Project; (F) costs of selling or financing any of Landlord’s interest in the Project; (G) costs incurred by Landlord for the repair of damage to the Property to the extent that Landlord is reimbursed by insurance proceeds or otherwise (or which would have been reimbursed but for Landlord’s failure to carry the insurance policies required hereunder); (H) marketing costs, including leasing commissions, attorneys’ fees (in connection with the negotiation and preparation of letters, deal memos, letters of intent, leases, subleases and/or assignments), and other costs and expenses incurred in connection with lease, sublease and/or assignment negotiations and transactions with present or prospective tenants or other occupants of the Building; (I) rentals for items which if purchased, rather than rented, would constitute a capital cost; (J) costs incurred by Landlord to the extent that Landlord is reimbursed by insurance proceeds or is otherwise

reimbursed; (K) advertising and promotional expenditures, and costs of acquisition and maintenance of signs in or on the Building identifying the owner of the Building; (L) expenses in connection with services or other benefits which are not offered to Tenant or for which Tenant is charged for directly; (M) management fees paid or charged by Landlord except for the reasonable third-party expenses incurred by Landlord's property manager in connection with providing property management services for the Project; (N) salaries and other benefits paid to the employees of Landlord or affiliates to the extent customarily included in or covered by a management fee, provided that in no event shall Operating Expenses include salaries and/or benefits attributable to personnel above the level of Building manager (and any personnel not exclusively rendering services for the Property shall be fairly and reasonably allocated to reflect the actual time rendering services for the Property); (O) rent for any office space occupied by Building management personnel; (P) Landlord's general corporate overhead and general and administrative expenses; (Q) any compensation paid to clerks, attendants or other persons in commercial concessions operated by Landlord; (R) services provided, taxes, attributable to, and costs incurred in connection with the operation of any retail, restaurant and garage operations for the Building, and any replacement garages or parking facilities; (S) capital expenditures, except to the extent permitted to be included in Operating Costs pursuant to the terms of clause (x) of the prior paragraph of this Section 4.2.3; (T) all costs, assessments and premiums which are not specifically charged to Tenant because of what Tenant has done, which are legally permitted to be paid by Landlord in installments, shall be paid by Landlord in the maximum number of installments permitted by law and not included as Operating Expenses except in the year in which the costs, assessment or premium installment is actually paid; (U) costs arising from the negligence or willful misconduct of Landlord or other tenants or occupants of the Building or their respective agents, employees, licensees, vendors, contractors or providers of materials or services; (V) costs arising from Landlord's charitable or political contributions; (W) costs arising from latent defects or repair thereof; (X) costs for the acquisition of (as opposed to repair and maintenance of) sculpture, paintings or other objects of art (including, but not limited to, seasonal decorations); (Y) costs associated with the operation of the business of the entity which constitutes Landlord as the same are distinguished from the costs of operation of the Building, including accounting and legal matters, costs of defending any lawsuits with any mortgagee (except as the actions of Tenant may be in issue), costs incurred in connection with any disputes between Landlord and its employees, between Landlord and Building management, or between Landlord and other tenants or occupants; (Z) the costs of services and utilities separately chargeable to individual tenants of the Building; (AA) costs incurred to test, survey, cleanup, contain, abate, remove or otherwise remedy Hazardous Materials, condition or asbestos-containing materials from the Property; (BB) any other costs or expenses which would not normally be treated as Operating Expenses by institutional landlords of comparable institutional quality buildings in the Market Area; (CC) costs, exactions, linkage, fees, or mitigation related to the construction or development of the Building or the Project; (DD) fines and penalties; and (EE) costs to obtain or maintain LEED or other energy or environmental related certifications.

4.2.4 **"Systems and Equipment"** shall mean any plant (including any central plant), machinery, transformers, duct work, cable, wires, and other equipment, facilities, and systems designed to supply heat, ventilation, air conditioning and humidity or any other services or utilities, or comprising or serving as any component or portion of the electrical, gas, steam, plumbing, sprinkler, communications, alarm, lab, security, or fire/life safety systems or equipment, or any other mechanical, electrical, electronic, computer or other systems or equipment which serve the Building.

4.2.5 **"Tax Expenses"** shall mean all federal, state, county, or local governmental or municipal taxes, fees, assessments, charges, payments in lieu of taxes or other impositions of every kind and nature, whether general, special, ordinary or extraordinary, (including, without limitation, real estate taxes, general and special assessments, transit assessments, fees and taxes, child care subsidies, fees and/or assessments, open space fees and/or assessments, public art fees and/or assessments, leasehold taxes or taxes based upon the receipt of rent, including gross receipts or sales taxes applicable to the receipt of rent, personal property taxes imposed upon the fixtures, machinery, equipment, apparatus, systems and equipment, appurtenances, furniture and other personal property used

in connection with the Project), which Landlord shall pay during any Expense Year because of or in connection with the ownership, leasing and operation of the Project or Landlord's interest therein.

4.2.5.1 Tax Expenses shall include, without limitation:

(i) Any tax on Landlord's rent, right to rent or other income

from the Project or as against Landlord's business of leasing any of the Project;

(ii) Intentionally omitted;

(iii) Any assessment, tax, fee, levy, or charge allocable to or

measured by the area of the Premises or the rent payable to Landlord hereunder;

(iv) Any assessment, tax, fee, levy or charge, upon this transaction or any document to which Tenant is a party, creating or transferring an interest or an estate in the Premises to Tenant; and

(v) Any reasonable expenses incurred by Landlord in attempting to protest, reduce or minimize Tax Expenses.

4.2.5.2 Notwithstanding anything to the contrary contained in this Section 4.2.5 or any other provision of this Lease, there shall be excluded from Tax Expenses and Tenant shall not be responsible to make payments on account of: (i) all excess profits taxes, franchise taxes, gift taxes, transfer taxes or deed stamps, capital stock taxes, inheritance and succession taxes, estate taxes, federal and state income taxes, and other taxes to the extent applicable to Landlord's income, (ii) any items included as Operating Expenses, (iii) any items paid by Tenant under Section 4.4 below, (iv) any excise taxes imposed upon Landlord based upon Landlord's gross rental or net rentals or other income received by Landlord under this Lease, (v) assessments, charges, taxes, rents, fees, rates, levies, excises, license fees, permit fees, inspection fees, or other authorization fees or charges to the extent allocable to or caused by the development or construction of the Building or Project, including without limitation, any linkage payments or any development or installation of on- or off-site improvements or utilities (including without limitation street and intersection improvements, roads, rights of way, lighting, and signalization) necessary for the development or construction of the Building or Project, or any past, present or future system development reimbursement schedule or sinking fund related to any of the foregoing, and (vi) any interest, penalties, or late charges imposed against Landlord incurred as a result of late payments by Landlord (provided that Tenant has timely made tax payments pursuant to the terms hereof); provided, however, if at any time during the Term, a tax or excise on income is levied or assessed by any governmental entity in lieu of or as a substitute for, in whole or in part, real estate taxes or other ad valorem taxes, such tax shall constitute and be included in Taxes.

4.2.6 "Tenant's Share" shall mean the percentage set forth in Section 9 of the Summary.

4.2.7 "Utilities Costs" shall mean all actual charges for utilities for the Building and the Project which Landlord shall pay during any Expense Year, including, but not limited to, the costs of water, sewer, gas and electricity, and the costs of HVAC and other utilities, including any lab utilities and central plant utilities as well as related fees, assessments, measurement meters and devices and surcharges. Utilities Costs shall include any costs of utilities which are allocated to the Project under any declaration, restrictive covenant, or other instrument pertaining to the sharing of costs by the Project or any portion thereof, now recorded against or affecting the Project.

4.3 Calculation and Payment of Additional Rent.

4.3.1 Payment of Operating Expenses, Tax Expenses and Utilities Costs. For each Expense Year ending or commencing within the Lease Term, Tenant shall pay to Landlord, as Additional Rent, the following, which payment shall be made in the manner set forth in Section 4.3.2 below:

(i) Tenant's Share of Operating

Expense; plus (ii) Tenant's Share of Tax Expense; plus (iii) Tenant's Share of Utilities Costs. Payments for any fractional calendar month or period shall be prorated.

4.3.2 Statement of Actual Operating Expenses, Tax Expenses and Utilities Costs and Payment by Tenant. Landlord shall provide Tenant on or before the first (1st) day of June following the end of each Expense Year, a statement (the "**Statement**") which shall state the Operating Expenses, Tax Expenses and Utilities Costs incurred or accrued for such preceding Expense Year, together with the calculation and reasonable breakdown and detail thereof (including invoices and paid receipts for all material line items), together with a calculation of the amount remaining due or overpaid after deduction of Estimated Expenses paid during the year. Within thirty (30) days after Tenant's receipt of the Statement for each Expense Year ending during the Lease Term, Tenant shall pay to Landlord the full amount of the Tenant's Share of Operating Expenses, Tax Expenses and Utilities Costs for such Expense Year, less the amounts, if any, paid during such Expense Year as the Estimated Expenses as defined in and pursuant to Section 4.3.3 below. If any Statement reflects that Tenant has overpaid Tenant's Share of Operating Expenses and/or Tenant's Share of Tax Expenses and/or Tenant's Share of Utilities Costs for such Expense Year, then Landlord shall, at Landlord's option, either (i) remit such overpayment to Tenant within thirty (30) days after such applicable Statement is delivered to Tenant, or (ii) if the Lease Term has not ended, credit such overpayment toward the additional Rent next due and payable to Tenant under this Lease. The failure of Landlord to timely furnish the Statement for any Expense Year shall not prejudice Landlord from enforcing its rights under this Article 4; provided, however, Landlord shall have no right to include in any Statement or collect from Tenant any amounts not billed within eighteen (18) months after the occurrence of the same ("**Cutoff Date**"), except that Tenant shall be responsible for Tenant's Share of any Utilities Costs and Tax Expenses levied by any governmental authority or by any public utility company at any time following the applicable Cutoff Date which are attributable to any calendar year (or portion thereof) occurring prior to such Cutoff Date and within the Lease Term, so long as Landlord delivers to Tenant a bill and supplemental statement for such amounts within thirty (30) days following Landlord's receipt of the applicable bill therefor, in which case Tenant shall have the same right to review and contest such expenses as would have applied if they had been included in the Statement for the period to which they relate, on the same conditions applicable thereto. Even though the Lease Term has expired and Tenant has vacated the Premises, if the Statement for the Expense Year in which this Lease terminates reflects that Tenant has overpaid and/or underpaid Tenant's Share of the

Operating Expenses and/or Tenant's Share of Tax Expenses and/or Tenant's Share of Utilities Costs for such Expense Year, then within thirty (30) days after Landlord's delivery of such Statement to Tenant, Landlord shall refund to Tenant any such overpayment, or Tenant shall pay to Landlord any such underpayment, as the case may be. Tenant's failure to object any Statement within one hundred twenty (120) days after Tenant's receipt thereof shall constitute Tenant's irrevocable waiver to object to the same. The provisions of this Section 4.3.2 shall survive the expiration or earlier termination of the Lease Term.

4.3.3 Statement of Estimated Operating Expenses, Tax Expenses and Utilities Costs. Landlord shall endeavor to give Tenant a yearly expense estimate statement (the "**Estimate Statement**") which shall set forth Landlord's reasonable estimate (the "**Estimate**") of the total amount of Tenant's Share of the Operating Expenses, Tax Expenses and Utilities Costs for the then-current Expense Year shall be, and which shall indicate therein Tenant's Share thereof (the "**Estimated Expenses**"), the monthly payment on account of Estimated Expenses (and any make-whole payments then due pursuant to the following provisions of this Section 4.3.3), and Landlord's reasonably backup calculations for such Estimated Expenses. The failure of Landlord to timely furnish the Estimate Statement for any Expense Year shall not preclude Landlord from enforcing its rights to collect any Estimated Expenses under this Article 4. Following Landlord's delivery of the Estimate Statement for the then-current Expense Year, Tenant shall pay, with its next installment of Base Rent due falling at least thirty (30) days after the Estimate Statement, a fraction of the Estimated Expenses for the then-current Expense Year (reduced by any amounts paid pursuant to the last sentence of this Section 4.3.3). Such fraction shall have as its numerator the number of months which have elapsed in such current Expense Year to the month of such payment, both months inclusive, and shall have twelve (12) as its denominator. Until thirty (30) days after a new Estimate Statement is furnished, Tenant shall pay monthly, with the monthly Base Rent installments, an amount equal to one-twelfth (1/12) of the total Estimated Expenses set forth in the previous Estimate Statement delivered by Landlord to Tenant.

4.4 Taxes and Other Charges for Which Tenant Is Directly Responsible. Tenant shall reimburse Landlord thirty (30) days following demand for all taxes or assessments required to be paid by Landlord (except to the extent included in Tax Expenses by Landlord), excluding state, local and federal personal or corporate income taxes measured by the net income of Landlord from all sources and estate and inheritance taxes, whether or not now customary or within the contemplation of the parties hereto, when:

4.4.1 said taxes are measured by or reasonably attributable to the cost or value of Tenant's equipment, furniture, fixtures and other personal property located in the Premises, or by the cost or value of any leasehold improvements made in or to the Premises by or for Tenant, to the extent the cost or value of such leasehold improvements exceeds the cost or value of a building standard build-out as determined by Landlord regardless of whether title to such improvements shall be vested in Tenant or Landlord;

4.4.2 said taxes are assessed upon or with respect to the possession, leasing, operation, management, maintenance, alteration, repair, use or occupancy by Tenant of the Premises or any portion of the Project and are not otherwise excluded in this Lease (including by Section 4.2.5.2 of this Lease); or

4.4.3 said taxes are assessed upon this transaction or any document to which Tenant is a party creating or transferring an interest or an estate in the Premises to Tenant.

4.5 Late Charges. If any installment of Rent or any other sum due from Tenant shall not be received by Landlord or Landlord's designee by the due date therefor, then Tenant shall pay to Landlord a late charge equal to five percent (5%) of the amount due; provided there shall not be any late charge imposed for the first late payment of Rent or other sum in any twelve (12) month period. The late charge shall be deemed Additional Rent and the right to require it shall be in addition to all of Landlord's other rights and remedies hereunder, at law and/or in equity and shall not be construed as liquidated damages or as limiting Landlord's remedies in any manner. In addition to the late charge described above, any Rent or other amounts owing hereunder which are not paid by the date that they are due shall thereafter bear interest until paid at a rate (the "**Interest Rate**") equal to the lesser of (i) the "Prime Rate" or "Reference Rate" announced from time to time by the Bank of America (or such reasonable comparable national banking institution as selected by Landlord in the event Bank of America ceases to exist or publish a Prime Rate or Reference Rate), plus three percent (3%), or (ii) the highest rate permitted by applicable law.

4.6 Audit Rights. Tenant shall have the right, at Tenant's cost, after reasonable notice to Landlord, to have Tenant's authorized employees, consultants, agents, or third-party accountant (meeting the qualifications of an Accountant (as defined below)) inspect, , Landlord's books, records and supporting documents concerning the Operating Expenses, Tax Expenses and Utilities Costs set forth in any Statement delivered by Landlord to Tenant for a particular Expense Year pursuant to Section 4.3.2 above (and Landlord agrees to make such books, records and supporting documentation available to Tenant and Tenant's authorized employees, consultants, agents, or third-party accountants in electronic format); provided, however, Tenant shall have no right to conduct such inspection or object to or otherwise dispute the amount of the Operating Expenses, Tax Expenses and Utilities Costs set forth in any such Statement, unless Tenant notifies Landlord of such inspection request within six (6) months following Landlord's delivery of a Statement, and completes the audit and makes any objection or dispute within six (6) months thereafter (the "**Review Period**") (subject to reasonable extension in the event that Landlord fails to promptly upon request make available to Tenant and its authorized employees, agents, or accountants any information or materials relevant to the inspection); provided, further, that notwithstanding any such timely inspection, objection, dispute, and/or audit, and as a condition precedent to Tenant's exercise of its right of inspection, objection, dispute, and/or audit as set forth in this Section 4.6, Tenant shall not be permitted to withhold payment of, and Tenant shall timely pay to Landlord, the full amounts as required by the provisions of this Article 4 in accordance with such Statement. However, such payment may be made under protest pending the outcome of any audit. In connection with any such inspection by Tenant, Landlord and Tenant shall reasonably cooperate with each other so that such inspection can be performed pursuant to a mutually acceptable schedule, in an expeditious manner and without undue interference with Landlord's operation and management of the Project. If after such inspection and/or request for documentation, Tenant disputes the amount of the Operating Expenses, Tax Expenses and Utilities Costs set forth in the Statement, Tenant shall have the right, but not the obligation, within the Review Period, to cause an independent certified public accountant which is not paid on a contingency basis and which is

mutually approved by Landlord and Tenant (the “**Accountant**”) to complete an audit of Landlord’s books and records to determine the proper amount of the Operating Expenses, Tax Expenses and Utilities Costs incurred and amounts payable by Tenant for the Expense Year which is the subject of such Statement; provided that the Review Period shall be extended until the Accountant is selected and completes its audit. Such audit by the Accountant shall be final and binding upon Landlord and Tenant. If Landlord and Tenant cannot mutually agree as to the identity of the Accountant within thirty (30) days after Tenant notifies Landlord that Tenant desires an audit to be performed, then the Accountant shall be one of the “Big 4” accounting firms selected by Landlord, which is not paid on a contingency basis and is not, and has not been, otherwise employed or retained by Landlord or its affiliates. If such audit reveals that Landlord has over-charged Tenant, then within thirty (30) days after the results of such audit are made available to Landlord, Landlord shall reimburse to Tenant the amount of such over-charge. If the audit reveals that the Tenant was under-charged, then within thirty (30) days after the results of such audit are made available to Tenant, Tenant shall reimburse to Landlord the amount of such under-charge. Tenant agrees to pay the cost of such audit unless it is determined that Landlord’s original Statement which was the subject of such audit was overstated by five percent (5%) or more (in which case Landlord shall pay all third-party costs incurred in connection with Tenant’s inspect and audit, including, without limitation, the cost of the Accountant). The payment by Tenant of any amounts pursuant to this Article 4 shall not preclude Tenant from questioning the correctness of any Statement provided by Landlord at any time during the Review Period, but the failure of Tenant to object thereto, conduct and complete its inspection and have the Accountant conduct and complete the audit as described above prior to the expiration of the Review Period (as the same may be extended as provided herein) shall be conclusively deemed Tenant’s approval of the Statement in question and the amount of Operating Expenses, Tax Expenses and Utilities Costs shown thereon. In connection with any inspection and/or audit conducted by Tenant pursuant to this Section 4.6, Tenant agrees to keep, and to cause all of Tenant’s employees, consultants, agents, and thirty-party accountants and the Accountant to keep, all of Landlord’s books and records and the audit, and all information pertaining thereto and the results thereof, strictly confidential, and in connection therewith, Tenant shall cause such employees, consultants, agents, and thirty-party accountants and the Accountant to execute such reasonable confidentiality agreements as Landlord may require prior to conducting any such inspections and/or audits.

ARTICLE 5

USE OF PREMISES; HAZARDOUS MATERIALS; ODORS AND EXHAUST

5.1 Use. Tenant may use the Premises solely for general office, laboratory (including vivarium) and research uses together with uses ancillary and related thereto (the “**Permitted Uses**”), all to the extent consistent with applicable laws, and Tenant shall not use or permit the Premises to be used for any other purpose or purposes whatsoever. Tenant shall not use, or suffer or permit any person or persons to use, the Premises or any part thereof in violation of any applicable laws of the United States of America, the state in which the Project is located, or the ordinances, orders, permits, regulations or requirements of the local municipal or county governing body or other lawful authorities having jurisdiction over the Project. Tenant shall comply with the Rules and Regulations and all recorded covenants, conditions, and restrictions, now or hereafter affecting the Project, as the same may be amended, amended and restated, supplemented or otherwise modified from time to time; provided that any such amendments, restatements, supplements or modifications shall not modify Tenant’s rights or obligations hereunder or use or enjoyment of the Premises, in more than a de minimis manner. Landlord shall not enter into any new covenants, conditions, restrictions, ground leases or underlying leases, which have the effect of adversely modifying Tenant’s rights or obligations hereunder or adversely affecting Tenant’s use or enjoyment of, or access to, the Premises to more than a de minimis extent. Landlord represents and warrants to Tenant that, as of the date hereof, there are no covenants, conditions and restrictions encumbering the Project.

5.2 Hazardous Materials.

5.2.1 Definitions: As used in this Lease, the following terms have the following

meanings:

(a) “**Environmental Law**” means any present or future federal, state or local statutory or common law, or any regulation, ordinance, code, order, or permit, issued, entered, promulgated or approved thereunder, relating to (a) the environment, human health or safety, including, without limitation, emissions, discharges, releases or threatened releases of Hazardous Materials (as defined below) into the environment (including, without limitation, air, surface water, groundwater or land), or (b) the manufacture, generation, refining, processing, distribution, use, sale, treatment, receipt, storage, disposal, transport, arranging for transport, or handling of Hazardous Materials.

(b) “**Environmental Permits**” mean collectively, any and all permits, consents, licenses, approvals and registrations of any nature at any time required pursuant to, or in order to comply with, any applicable Environmental Law.

(c) “**Hazardous Materials**” shall mean and include any hazardous or toxic materials, substances or wastes as now or hereafter designated or regulated under any Environmental Law, including, without limitation, asbestos, petroleum, petroleum hydrocarbons and petroleum based products, urea formaldehyde foam insulation, polychlorinated biphenyls, freon and other chlorofluorocarbons, “biohazardous waste,” “medical waste,” “infectious agent”, “mixed waste” or other waste under Massachusetts General Laws, Chapters 21C and 21E.

(d) “**Release**” shall mean with respect to any Hazardous Materials, any release, deposit, discharge, emission, leaking, pumping, leaching, spilling, seeping, migrating, injecting, pumping, pouring, emptying, escaping, dumping, disposing or other movement of Hazardous Materials.

5.2.2 Tenant’s Obligations – Environmental Permits. Tenant will (i) obtain and maintain in full force and effect all applicable Environmental Permits that may be required from time to time under any applicable Environmental Laws applicable to Tenant or Tenant’s use of the Premises and (ii) be and remain in compliance with all terms and conditions of all such applicable Environmental Permits and with all other limitations, restrictions, conditions, standards, prohibitions, requirements, obligations, schedules and timetables contained in all Environmental Laws applicable to Tenant or Tenant’s use of the Premises.

5.2.3 Tenant’s Obligations – Hazardous Materials. Landlord acknowledges that it is not the intent of this Section 5.2 to prohibit Tenant from operating its business for the Permitted Uses. Tenant may operate its business according to the custom of Tenant’s industry so long as the use or presence of Hazardous Materials is strictly and properly monitored in accordance with applicable Environmental Laws. As a material inducement to Landlord to allow Tenant to use Hazardous Materials in connection with its business, Tenant agrees to deliver to Landlord prior to the Lease Commencement Date a list identifying each type of Hazardous Material that Tenant anticipates will be brought upon, kept, used, stored, handled, treated, generated on, or released or disposed of from, the Premises by Tenant and setting forth any and all governmental approvals or permits required in connection with the presence of such Hazardous Material at the Premises (the “**Hazardous Materials List**”). Upon Landlord’s request, or at any time Tenant is required to deliver a Hazardous Materials List to any governmental authority (e.g., the fire department) in connection with Tenant’s use or occupancy of the Premises, Tenant shall deliver to Landlord an updated Hazardous Materials List. Tenant shall deliver to Landlord true and correct copies of the following documents (hereinafter referred to as the “**Documents**”) delivered to or from a governmental authority relating to the handling, storage, disposal and emission of Hazardous Materials prior to the Lease Commencement Date or, if unavailable at that time, concurrently with the receipt from or submission to any governmental authority: permits; approvals; storage and management plans; notices of violations of applicable Environmental Laws; plans relating to the installation of any storage tanks to be installed in, on, under or about the Premises (provided that installation of storage tanks shall only be permitted above-ground and only after Landlord has given Tenant its written consent with respect to the design and location, which consent shall not be unreasonably withheld) and all closure plans or

any other documents required by any and all governmental authorities for any storage tanks installed in, on, under or about the Premises for the closure of any such storage tanks. In no event shall any below ground storage tanks be installed in the Project by Tenant without the prior consent of Landlord (in Landlord's sole and absolute discretion). Tenant shall not be required, however, to provide Landlord with any portion of the Documents containing information of a proprietary nature. It is not the intention of this Section to provide Landlord with information which could be detrimental to Tenant's business should information become possessed by Tenant's competitors, and Tenant shall have no obligation to provide Landlord with the same. Upon the expiration or earlier termination of this Lease, Tenant agrees to promptly remove from the Premises, the Building and the Project, at its sole cost and expense, any and all Hazardous Materials (including any equipment or systems containing Hazardous Materials) which are installed, brought upon, stored, used, generated or released upon, in, under or about the Premises, the Building and/or the Project or any portion thereof by Tenant, its agents, employees, licensees, contractors or invitees (collectively, "**Tenant's Parties**") during the Term of this Lease. Notwithstanding the provisions of Article 14, if any proposed transferee, assignee or sublessee is subject to a material enforcement order (considered in light of the size and stature of the entity) issued by any governmental authority in connection with the use, disposal or storage of Hazardous Materials, then Landlord it shall not be unreasonable for Landlord to withhold its consent to any proposed transfer, assignment or subletting (with respect to any such matter involving a proposed transferee, assignee or sublessee).

5.2.4 Landlord's Right to Conduct Environmental Assessment. Landlord, subject to Section 22, shall have the right to conduct an environmental assessment of the Premises as well as any other areas in, on or about the Project that Landlord reasonably believes may have been affected adversely by Tenant's use of the Premises (collectively, the "**Affected Areas**") in order to confirm that the Premises and the Affected Areas do not contain any Hazardous Materials resulting from Tenant's use in violation of applicable Environmental Laws or under conditions constituting or likely to constitute a Release of Hazardous Materials. Such environmental assessment shall be a so-called "Phase I" assessment or such other level of investigation which shall be the standard of diligence in the purchase or lease of similar property at the time, together with, any additional investigation and report which would customarily follow any discovery contained in such initial Phase I assessment (including, but not limited to, any so-called "Phase II" report). Such right to conduct such environmental assessment shall not be exercised more than once per calendar year unless Tenant is in default under this Section 5.2. If contamination has occurred for which Tenant is liable for under this Lease, then Tenant shall pay all reasonable out-of-pocket costs incurred to conduct the assessment. If no such contamination is found, Landlord shall pay for the costs of the assessment. Landlord shall provide Tenant with a copy of all third-party reports and tests of the Premises and Affected Areas made by or on behalf of Landlord during the Term.

5.2.5 Tenant's Obligations to perform Corrective Action. If the data from any environmental assessment authorized and undertaken by Landlord pursuant to Section 5.2.4 indicates there has been a Release, threatened Release or other conditions with respect to Hazardous Materials on, under or emanating from the Premises and the Affected Areas that may require any investigation and/or active response action, including without limitation active or passive remediation and monitoring or any combination of these activities, to the extent caused by Tenant or any of Tenant's Parties but such response action shall be limited to that required for office and laboratory uses ("**Corrective Action**"), Tenant shall immediately undertake Corrective Action with respect to contamination if, and to the extent, required by the governmental authority exercising jurisdiction over the matter or otherwise required by law. Landlord may engage a licensed site professional at Tenant's sole cost and expense. Any Corrective Action to be performed by Tenant in accordance with this Section 5.2.5 will be performed with Landlord's prior written approval and in accordance with applicable Environmental Laws, at Tenant's sole cost and expense and by an environmental consulting firm and licensed site professional (all reasonably acceptable to Landlord and Tenant). Notwithstanding any other provision of this Lease, a Corrective Action shall only include the imposition of an Activity and Use Limitation pursuant to the Massachusetts Contingency Plan that permits office and laboratory uses. Tenant may perform the Corrective Action before or after the expiration or earlier termination of this Lease, to the extent permitted by governmental agencies with jurisdiction over the Premises, the Building and the Project (provided, however, that any Corrective Action performed after the expiration or earlier termination of this Lease shall be subject to the access provisions set forth below). If Tenant undertakes or continues Corrective Action after the expiration or earlier termination of this Lease, Landlord, upon being given forty-eight (48) hours' advance notice, may, in Landlord's sole discretion, elect (without limiting any of the Landlord's other rights and

remedies under this Lease, at law and/or in equity), to provide access to the Premises, the Building and the Project as may be requested by Tenant, the licensed site professional overseeing the Corrective Action and any other consultants to accomplish the Corrective Action. Tenant or its consultant may install, inspect, maintain, replace and operate remediation equipment and conduct the Corrective Action as it considers necessary, subject to Landlord's approval. Tenant and Landlord shall, in good faith, cooperate with each other with respect to any Corrective Action after the expiration or earlier termination of this Lease so as not to interfere unreasonably with the conduct of Landlord's or any third party's business on the Premises, the Building and the Project. Landlord may, in its sole discretion, provide access until Tenant delivers evidence reasonably satisfactory to Landlord that Tenant's Corrective Action activities on the Premises and the Affected Areas satisfy applicable Environmental Laws. It shall be reasonable for Landlord to require Tenant to deliver all such reports prepared by the licensed site professional and filings with applicable governmental agencies indicating that no further Corrective Action is needed under any applicable laws and regulations, including without limitation the Massachusetts Contingency Plan. Landlord may, in its sole discretion, continue to provide access until such time as Landlord is able to use the Premises and the Affected Areas for office and laboratory purposes. If Landlord desires to situate a tenant in the Premises, the Building and the Project and remediation of the Premises and the Affected Areas is ongoing in a manner that prevents Landlord from leasing such space, then Landlord shall provide Tenant with access to complete the remediation and Tenant shall be obligated to continue paying a market rental rate for the portion of the Building that cannot be leased due to the remediation performed by Tenant until Tenant completes the remediation preventing the leasing. Tenant agrees to install, at Tenant's sole cost and expense, screening around its remediation equipment so as to protect the aesthetic appeal of the Premises, the Building and the Project. Tenant also agrees to use reasonable efforts to locate its remediation and/or monitoring equipment, if any (subject to the requirements of Tenant's consultant and governmental agencies with jurisdiction over the Premises, the Building and the Project) in a location which will allow Landlord, to the extent reasonably practicable, the ability to lease the Premises, the Building and the Project to a subsequent user. Notwithstanding anything above to the contrary, if any clean-up or monitoring procedure is required by any applicable governmental authorities in, on, under or about the Premises and the Affected Areas during the Lease Term as a consequence of any Hazardous Materials contamination actually caused by Tenant and the procedure for clean-up is not completed (to the satisfaction of the governmental authorities) prior to the expiration or earlier termination of this Lease and the same prevents the occupancy of the Building then, at Landlord's election, (i) this Lease shall be deemed renewed with respect to the portion of the Building that cannot be occupied for a term commencing on the expiration or earlier termination of this Lease and ending on the date the clean-up procedure preventing the occupancy is anticipated to be completed; or (ii) Tenant shall be deemed to have impermissibly held over with respect to the portion of the Building that cannot be occupied (and Article 16 of this Lease shall apply with full force and effect) and Landlord shall be entitled to all damages directly or indirectly incurred, including, without limitation, damages occasioned by the inability to relet with respect to the portion of the Building that cannot be occupied or a reduction of the fair market or rental value of the Premises and/or the Building.

5.2.6 Tenant's Duty to Notify Landlord Regarding Releases. Tenant agrees to promptly notify Landlord of any Release of Hazardous Materials in the Premises, the Building or any other portion of the Project which Tenant becomes aware of during the Term of this Lease, whether caused by Tenant or any other persons or entities. In the event of any Release of Hazardous Materials caused by Tenant or any of Tenant's Parties, Landlord shall have the right, but not the obligation, to cause Tenant, at Tenant's sole cost and expense, to immediately take all reasonable steps Landlord reasonably deems necessary or appropriate to remediate such Release to a condition required for office and laboratory use. Tenant will, upon the request of Landlord at any time during which Landlord has actual reason to believe that Tenant is not in compliance with this Section 5.2 (and in any event no earlier than sixty (60) days and no later than thirty (30) days prior to the expiration of this Lease), cause to be performed an environmental audit of the Premises at Tenant's expense by an established environmental consulting firm reasonably acceptable to Landlord. In the event the audit provides that Corrective Action is required then Tenant shall immediately perform the same at its sole cost and expense.

5.2.7 Tenant's Environmental Indemnity. To the fullest extent permitted by law, Tenant agrees to promptly indemnify, protect, defend and hold harmless Landlord and Landlord's members, partners, subpartners, independent contractors, officers, directors, shareholders, employees, agents, successors and assigns (collectively, "**Landlord Parties**") from and against any and all claims, damages, judgments, suits, causes of action, losses,

liabilities, penalties, fines, expenses and costs (including, without limitation, clean-up, removal, remediation and restoration costs, sums paid in settlement of claims, reasonable attorneys' fees, consultant fees and expert fees and court costs) which arise or result from the presence of Hazardous Materials on, in, under or about the Premises, the Building or any other portion of the Project introduced by Tenant or any of Tenant's Parties during the Term of this Lease, including arising from or caused in whole or in part, directly or indirectly, by (i) the presence in, on, under or about the Premises and the Affected Areas, of any Hazardous Materials introduced by Tenant or a Tenant's Party; (ii) Tenant's or a Tenant's Party's actual, proposed or threatened use, treatment, storage, transportation, holding, existence, disposition, manufacturing, control, management, abatement, removal, handling, transfer, generation or Release (past, present or threatened) of Hazardous Materials to, in, on, under, about or from the Premises and the Affected Areas; (iii) any past, present or threatened non-compliance or violations of any Environmental Laws by Tenant or a Tenant's Party in connection with Tenant use of the Premises and/or the Affected Areas; (iv) personal injury claims on account of Hazardous Materials introduced by Tenant or a Tenant's Party; (v) the payment of any environmental liens, or the disposition, recording, or filing or threatened disposition, recording or filing of any environmental lien encumbering or otherwise affecting the Premises and/or the Affected Areas on account of Hazardous Materials introduced by Tenant or a Tenant's Party; (vi) diminution in the value of the Premises and/or the Project on account of Hazardous Materials introduced by Tenant or a Tenant's Party; (vii) damages for the loss or restriction of use of the Premises and/or the Project, including prospective rent, lost profits and business opportunities on account of Hazardous Materials introduced by Tenant or a Tenant's Party; (viii) sums paid in settlement of claims on account of Hazardous Materials introduced by Tenant or a Tenant's Party; (ix) the cost of any investigation of site conditions on account of Hazardous Materials introduced by Tenant or a Tenant's Party; and (x) the cost of any repair, clean-up or remediation ordered by any governmental or quasi-governmental agency or body or otherwise deemed necessary in Landlord's reasonable judgment on account of Hazardous Materials introduced by Tenant or a Tenant's Party. Tenant's obligations hereunder shall include, without limitation, and whether

foreseeable or unforeseeable, all costs of any required or necessary repair, cleanup or detoxification or decontamination of the Premises, the Building and/or the Project, or the preparation and implementation of any closure, remedial action or other required plans in connection therewith to return the Premises, the Building and/or the Project to the condition permitting office and lab use. The provisions of this Section 5.2.7 will survive the expiration or earlier termination of this Lease.

5.2.8 Tenant Representation and Warranty. Tenant hereby represents and warrants to Landlord that as of the date hereof (i) Tenant has not been required by any prior landlord, lender or governmental authority at any time to take remedial action in connection with Hazardous Materials contaminating a property which contamination was permitted by Tenant or resulted from Tenant's action or use of the property in question, and (ii) Tenant is not subject to any enforcement order issued by any governmental authority in connection with the use, storage, handling, treatment, generation, release or disposal of Hazardous Materials (including, without limitation, any order related to the failure to make a required reporting to any governmental authority).

5.2.9 Limitations on Tenant's Obligations. Notwithstanding anything to the contrary contained in this Lease, Tenant shall have no liability in connection with any Hazardous Materials (i) in existence on the Premises, Building or Project prior to the applicable Lease Commencement Date or brought or introduced onto the Premises, Building or Project after the applicable Lease Commencement Date by any party other than Tenant or a Tenant's Party or (ii) which may migrate into the Premises, Building or Project from outside of the Project through no fault of Tenant or any of Tenant's Parties (the "**Excluded Matters**"). Landlord represents and warrants to Tenant that to Landlord's actual knowledge and except as provided in that certain Phase I Environmental Site Assessment prepared by Partner Engineering and Sciences, Inc. dated November 7, 2019 (the "**Phase I Report**"), the Premises, the Building, and the Project are free of all Hazardous Materials. The Premises, the Building and the Project has not been occupied since that date of the Phase I Report. It being acknowledged, that Landlord shall, at its sole cost and expense (without inclusion as an Operating Expense), be responsible for any restoration, remediation or other corrective actions required or occasioned by any Excluded Matters.

5.3 Odors and Exhaust. Tenant acknowledges that Landlord would not enter into this Lease with Tenant unless Tenant assured Landlord that under no circumstances will the Premises be damaged by any exhaust from

Tenant's operations. Landlord and Tenant therefore agree that Tenant shall not cause or permit (or conduct any activities that would cause) any release of any odors or fumes of any kind from the Premises (except through a ventilation system installed under the Work Letter or otherwise in a manner that is adequate, suitable and appropriate to vent the Premises).

ARTICLE 6

SERVICES AND UTILITIES

6.1 Standard Tenant Services. Landlord shall, as part of Operating Expenses, provide the following services at all times on all days during the Lease Term, unless otherwise stated below.

6.1.1 Landlord shall provide heating and air conditioning ("HVAC") capacity to the Premises for normal office and lab use.

6.1.2 Landlord shall provide adequate electrical wiring and facilities for power for the Premises. Landlord shall designate the electricity utility provider from time to time.

6.1.3 Landlord shall provide automatic passenger elevator service at all times.

6.1.4 Landlord shall provide water in the Building and the Premises for lavatory, drinking, laboratory and landscaping purposes.

6.2 Overstandard Tenant Use. Tenant shall not overload the Systems and Equipment serving the Building.

6.3 Utilities. Tenant shall pay for all water (including the cost to service, repair and replace reverse osmosis, de-ionized and other treated water (provided that the cost of any capital repairs or replacements shall be amortized over their useful life, with Tenant responsible for each annual portion as so amortized), gas, heat, light, power, telephone, internet service, cable television, other telecommunications and other utilities supplied to the Premises, together with any fees, surcharges and taxes thereon.

6.4 Interruption of Use. Tenant agrees that Landlord shall not be liable for damages, by abatement of Rent or otherwise, for failure to furnish or delay in furnishing any service (including, but not limited to, any central plant or other lab system, telephone and telecommunication services), or for any diminution in the quality or quantity thereof, when such failure or delay or diminution is occasioned, in whole or in part, by repairs, replacements, or improvements, by any strike, lockout or other labor trouble, by inability to secure electricity, gas, water, or other fuel at the Building or Project after reasonable effort to do so, by any accident or casualty whatsoever, by act or default of Tenant or other parties, or by any other cause beyond Landlord's reasonable control; and such failures or delays or diminution shall never be deemed to constitute an eviction or disturbance of Tenant's use and possession of the Premises or relieve Tenant from paying Rent or performing any of its obligations under this Lease. Furthermore, Landlord shall not be liable under any circumstances for a loss of, or injury to, property (including scientific research and any intellectual property) or for injury to, or interference with, Tenant's business, including, without limitation, loss of profits, however occurring, through or in connection with or incidental to a failure to furnish any of the services or utilities as set forth in this Article 6. Notwithstanding anything to the contrary in this Lease, if by reason of the negligence or willful misconduct of Landlord or the Landlord Parties, the provision of HVAC, other utilities or services or access to all or a portion of the Premises is interrupted for more than five (5) consecutive days following written notice to Landlord including on account of any Construction undertaken by Landlord pursuant to Section 24.30 below (and except to the extent that such failure is caused by any action or inaction of Tenant), then Tenant's Base Rent and Tenant's Share of Operating Expenses, Tax Expenses and Utilities Costs (or, to the extent that less than all of the Premises are affected, a proportionate amount thereof based on the space not able to be used (and not used) by Tenant) shall thereafter be abated until the Premises are again usable by Tenant for the Permitted Use; provided, however, that, if Landlord is diligently pursuing the restoration of such HVAC and other utilities and services and Landlord continuously until such restoration is complete provides substitute HVAC and other utilities and services reasonably suitable for Tenant's continued use and occupancy of

the Premises for the Permitted Uses and the interruption does not exceed for more than five (5) consecutive days following Tenant's written notice to Landlord, then neither Base Rent nor Operating Expenses shall be abated. Notwithstanding the foregoing, in the event the interruption prevents Tenant from using any portions of laboratory portions of the Premises and Tenant does not use such affected portions of the Premises during such interruption, then the same shall be treated as an interruption of the entire Premises.

6.5 Additional Services. Landlord shall also have the non-exclusive right, but not the obligation, to provide any additional services which may be required by Tenant, including, without limitation, locksmithing and additional repairs and maintenance, provided that Tenant shall pay to Landlord within thirty (30) business days after billing and as Additional Rent hereunder, the sum of all costs to Landlord of such additional services.

6.6 Janitorial Service. Landlord shall not be obligated to provide any janitorial services to the Premises or replace any light bulbs, lamps, starters and ballasts for lighting fixtures within the Premises. Tenant shall be solely responsible, at Tenant's sole cost and expense, for (i) performing all janitorial services, trash removal and other cleaning of the Premises, and (ii) replacement of all light bulbs, lamps, starters and ballasts for lighting fixtures within the Premises, all as appropriate to maintain the Lab space within Premises in a first-class manner consistent with the first-class nature of the Building and Project. Such services to be provided by Tenant shall be performed by contractors and pursuant to service contracts approved by Landlord, such approval not to be unreasonably withheld, conditioned or delay. Tenant shall deposit trash as reasonably required in the area designated by Landlord from time to time. Landlord shall provide a dumpster and/or compactor at the loading dock for Tenant's use for disposal of non-hazardous/non-controlled substances (and shall arrange for the regular removal of such trash from the dumpster and/or compactor). Subject to the provisions of Section 22 of this Lease, Landlord shall have the right to inspect the Premises. In the event Tenant shall fail to provide any of the services described in this Section 6.6 to be performed by Tenant within thirty (30) days after notice from Landlord, which notice shall not be required in the event of an emergency, Landlord shall have the right to provide such services and any charge or cost incurred by Landlord in connection therewith shall be deemed Additional Rent due and payable by Tenant within thirty (30) days of receipt by Tenant of a written statement of cost from Landlord.

6.7 Energy Statements. For any utilities serving the Premises for which Tenant is billed directly by such utility provider, Tenant agrees to furnish to Landlord upon request any invoices or statements for such utilities, any other utility usage information reasonably requested by Landlord, and an ENERGY STAR® Statement of Performance (or similar comprehensive utility usage report if requested by Landlord) and any other information reasonably requested by Landlord for the immediately preceding year, in each case, only to the extent that such information is in Tenant's actual possession or control. Tenant shall retain records of utility usage at the Premises, including invoices and statements from the utility provider, for at least two (2) years. Tenant acknowledges that any utility information for the Premises may be shared with third parties, including Landlord's consultants and governmental authorities. In the event that Tenant fails to comply with this Section, Tenant hereby authorizes Landlord to collect utility usage information directly from the applicable utility providers.

ARTICLE 7

REPAIRS

7.1 Tenant's Obligations.

7.1.1 General. Subject to Landlord's obligations in Sections 7.2 and 11.1 below, throughout the Lease Term, Tenant shall, at Tenant's sole cost and expense, maintain and repair to the Management Standard, all portions of the Premises in accordance with the following provisions of this Article 7.1 (reasonable wear and tear, damage by casualty, condemnation, damage by Landlord or any Landlord Party, and repairs which are specifically made the responsibility of Landlord hereunder excepted). For purposes of this Lease, the portions of the Building and Premises to be so maintained and repaired by Tenant and Tenant's in-house facilities management department (collectively, the "**Facilities Team**") shall include, without limitation, all of the systems ("**Building Systems**") set forth in **Exhibit I**. Tenant, at its sole cost and expense, shall also maintain and keep the sidewalks, landscaping, parking areas, curbs, roads, driveways, lighting standards, landscaping, sewers, water, gas and

electrical distribution systems and facilities, drainage facilities, and all signs, both illuminated and non-illuminated, in good condition (reasonable wear and tear, damage by casualty, condemnation, damage by Landlord or any Landlord Party, and repairs which are specifically made the responsibility of Landlord hereunder excepted) (collectively, “**Tenant Maintenance Responsibilities**”).

7.1.2 Management Standards.

7.1.2.1 Professional Maintenance. Tenant shall perform the Tenant Maintenance Responsibilities in a manner generally consistent with the standards followed by other first-class owners and management companies that are managing comparable buildings in the Market Area (reasonable wear and tear, damage by casualty, condemnation, damage by Landlord or any Landlord Party, and repairs which are specifically made the responsibility of Landlord hereunder excepted) (the “**Management Standard**”).

7.1.2.2 Service Agreements. To the extent required to perform the Tenant Maintenance Responsibilities, Tenant shall enter into service, repair and maintenance agreements (collectively, the “**Service Agreements**”) with providers as required under **Exhibit H** of this Lease. With respect to such Service Agreements, Tenant shall provide Landlord with the name of the particular vendor, and the scope of work for which such vendor is retained, and Landlord shall have the reasonable right to approve or disapprove of the such vendor and such scope of work within five (5) business days after receiving the same from Tenant (Landlord’s approval not to be unreasonably withheld, conditioned or delayed), provided, however, that Landlord’s failure to respond during such period shall be deemed Landlord’s approval thereof.

7.1.3 Records and Reports and Meeting Requirements.

7.1.3.1 Annual Management Reports. Upon request from Landlord (but not more than twice per calendar year), Tenant shall provide Landlord with such commercially reasonable requested information in connection with the maintenance of the Building and the Premises.

7.1.3.2 Landlord’s Ownership of Records. All plans and specifications of the Building maintained by Tenant and/or any improvements, and any warranties and guaranties and operating manuals relating to the Building and/or Premises, but specifically excluding Tenant’s equipment (collectively, the “**Building Documents**”) shall become the property of Landlord, and such documents (but Tenant may retain copies thereof) shall be delivered (whether physically or electronically) to Landlord upon the expiration or earlier termination of the Lease Term, to the extent not previously delivered or made available to Landlord.

7.1.3.3 Meeting Requirements. At the written request of either Landlord or Tenant (a “**MM Request**”), each party shall arrange to meet and confer with the other (at a mutually reasonable and convenient time and location in Massachusetts), as to the status of the maintenance and repair required to be performed under this Lease and to (i) conduct a full inspection of the condition of the Premises including the Building structure and Building systems, (ii) review and discuss the Service Agreements, and (iii) review and discuss Tenant’s and Landlord’s obligations as set forth under this Lease (each, a “**Maintenance Meeting**”); provided, however, in no event shall Landlord or Tenant be required to participate in more than one such Maintenance Meeting in any calendar quarter throughout the Lease Term, unless such a Maintenance Meeting is required in connection with an emergency situation or event. In connection with, and in advance of, any such Maintenance Meeting, to the extent Landlord’s MM Request included a request for maintenance and repair reports, documents and back-up materials, Tenant shall promptly deliver any maintenance and repair reports, documents and back-up materials related to the maintenance and repair required to be performed by Tenant under the Lease, to the extent the same are regularly and customarily generated and maintained by, and in the possession of, its Facilities Team (collectively, the “**M&R Reports**”).

7.1.3.4 Books and Records. Tenant shall maintain complete, detailed and accurate records, books and accounts of all funds disbursed in connection with Tenant’s obligations under this Article 7 (excepting salary disbursements internal to Tenant), including all M&R Reports. Tenant agrees to keep all of the aforementioned documents (collectively, the “**Books and Records**”) safe, available and separable from any record not having to do

with the Building (and Tenant may, but shall have no obligation to, maintain such records electronically). Tenant shall not dispose of any such Books or Records until the same are at least three (3) years old.

7.1.4 Tenant's Risk Management Obligations. Tenant shall promptly investigate and make a full timely written report to Landlord as to all alleged material accidents known to Tenant and/or all material claims for damages relating to the Premises known to Tenant, including any material damage or destruction to the Premises.

7.1.5 Repair, Maintenance and Testing.

7.1.5.1 Tenant's Repair and Maintenance Obligations. Tenant shall, at Tenant's sole cost and expense maintain and repair, in good repair and in a first-class condition, and pursuant to the specifications set forth in **Exhibit H** attached hereto (reasonable wear and tear, damage by casualty, condemnation, damage by Landlord or any Landlord Party, and repairs which are specifically made the responsibility of Landlord hereunder excepted), those portions of the Premises (inclusive of improvements) which are Tenant Maintenance Responsibilities. Tenant shall comply with all applicable laws in connection with the Tenant Maintenance Responsibilities. At Landlord's option, if Tenant fails to comply with its obligations, as required in this Article 7, Landlord may, after written notice to Tenant, and after affording Tenant a reasonable time period within which to conduct such repair or improvement, and after providing Tenant a second notice setting forth Landlord's intention to engage in self-help (except in the event of an emergency, in which case no notice to Tenant shall be required), but need not, perform such obligations, and Tenant shall pay Landlord the actual reasonable costs incurred by Landlord in connection therewith within thirty (30) days of an invoice from Landlord (accompanied by reasonable supporting documentation).

7.1.5.2 Tenant's Testing Obligations. Tenant shall operate, maintain, and test the Building Systems, to the extent related to the Tenant Maintenance Responsibilities in a manner consistent with the Management Standard. Tenant shall conduct such testing and maintenance in accordance with applicable laws.

7.1.6 Capital Expenditures. If any capital repairs, replacements or expenditures are required by Tenant's Maintenance Obligations, then the cost of such repairs, replacements or expenditures shall be subject to Landlord's reasonable approval and shall be paid by Landlord (and included as an Operating Expense subject to Section 4.2.3(x)). Tenant shall provide written notice to Landlord in the event that it becomes aware that any such capital repairs, replacements or expenditures are required during the Lease Term; provided that if Tenant is able to keep the Premises and the Building in good condition, repair and working order (reasonable wear and tear, damage by casualty, condemnation, damage by Landlord or any Landlord Party, and repairs which are specifically made the responsibility of Landlord hereunder excepted) without capital repairs or replacements during the last three (3) years of the Lease Term, then Tenant shall not be obligated to make capital repairs or replacement during such time; provided, further, however, that Landlord shall have the right to perform such capital repair or replacement and, in such event, Tenant shall only be obligated to pay the amortized cost of the same (amortized over the useful life of such capital item in accordance with Section 4.2.3(x)above).

7.1.7 Tenant's Responsibilities Upon Termination of Management of the Project. Upon the expiration or earlier termination of this Lease for any reason, Tenant shall forthwith, without necessity of demand or notice, deliver the following to Landlord, or Landlord's appointed agent on the effective date of expiration or termination (except to the extent that any such item has already been delivered to Landlord).

7.1.7.1 Copies of the Books and Records for the most recent full calendar year and any subsequent partial calendar year.

7.1.7.2 Any third party warranties, guaranties and operating manuals in Tenant's possession relating to the improvements in the Project and the Building Systems.

7.1.7.3 All keys related to the telephone closets, janitorial closets, electrical closets, storage rooms, storage areas, electrical utility provider rooms or areas, rooftop access points, and other areas which would traditionally be characterized as common areas.

7.1.7.4 The obligation of Tenant to deliver the foregoing shall survive the termination of the Lease.

7.2 Landlord's Repairs. Anything contained in Section 7.1 above to the contrary notwithstanding, and subject to Articles 11 and 12 below, Landlord, at its sole cost and expense (and not as an operating expense) shall repair, maintain and replace the structural portions of the Building (including the roof, floor and ceiling slabs, exterior walls, structural columns and load bearing walls, building façade, utility lines serving the building (to the extent not the responsibility of the utility company), and the foundation of the Building); provided, however, to the extent such maintenance, repairs or repairs are caused by the act, neglect, fault of or omission of any duty by Tenant, its agents, servants, employees or invitees, Tenant shall pay to Landlord as Additional Rent, the reasonable cost of such maintenance and repairs. Tenant shall promptly give Landlord written notice of any repair required by Landlord pursuant to this Section 7.2 of which Tenant becomes aware. Landlord shall not be in default for any failure to make any such repairs, unless such failure shall persist for 30 days after Tenant's written notice (or, if earlier, after Landlord otherwise had notice or should have been aware) of the need for such repairs. Except as otherwise provided herein, there shall be no abatement of rent and no liability of Landlord by reason of any injury to or interference with Tenant's business arising from the making of any repairs, alterations or improvements in or to any portion of the Project, Building or the Premises or in or to fixtures, appurtenances and equipment therein; provided that Landlord does not interrupt any building services or utilities and provides Tenant reasonable advance notice.

ARTICLE 8

ADDITIONS AND ALTERATIONS

8.1 Landlord's Consent to Alterations. Tenant may not make any improvements, alterations, additions or changes to the Premises (collectively, the "Alterations") without first procuring the prior written consent of Landlord to such Alterations, which consent shall be requested by Tenant not less than fifteen (15) days prior to the commencement thereof, and which consent shall not be unreasonably withheld, conditioned or delayed by Landlord; provided, however, Landlord may withhold its consent in its sole and absolute discretion with respect to any Alterations which may adversely affect the structural components of the Building or the Systems and Equipment in more than a de minimis manner (e.g., the mere tying into Systems shall not be subject to the sole discretion standard) or which can be seen from outside the Building. Tenant shall pay (i) for Alterations performed by Tenant, Landlord's reasonable third-party costs incurred in connection with reviewing such Alterations, and (ii) for Alterations for which Tenant has engaged Landlord to supervise and Landlord's contractors to perform, a supervision fee of two and one-half percent (2.5%) of the total cost of such Alteration (for the avoidance of doubt, the foregoing supervisory fee shall not be due or payable in connection with the Tenant Improvements and the Vivarium improvements and no supervisory fee shall be due or payable in connection with any capital improvements performed by Landlord). Notwithstanding the foregoing, no Landlord approval shall be required (provided advance notice shall be provided to Landlord) for (a) installation, removal or realignment of furniture systems not involving any modifications to the structure or connections (other than by ordinary plugs or jacks) to the Systems, (b) Alterations which could not reasonably be expected to affect the structural components of the Building or the Systems and Equipment and which cost less than \$150,000 for any one (1) job and no more than \$300,000 in the aggregate in any calendar year during the Lease Term (excluding any costs for painting, carpeting, and similar purely cosmetic work), (c) Alterations which do not require a building permit, and (d) merely cosmetic work (such as painting and carpeting). The construction of the initial improvements to the Premises shall be governed by the terms of the Tenant Work Letter and not the terms of this Article 8.

8.2 Manner of Construction. Landlord may impose, as a condition of its consent to all Alterations or repairs of the Premises, the requirement that Tenant to utilize only contractors, mechanics and materialmen approved by Landlord, such approval not to be unreasonably withheld. Tenant shall construct such Alterations and perform such repairs in compliance with any and all applicable rules and regulations of any federal, state, county or municipal code or ordinance and pursuant to a valid building permit, and issued by the city in which the Building is located. Landlord's approval of the plans, specifications and working drawings for Tenant's Alterations shall create no responsibility or liability on the part of Landlord for their completeness, design sufficiency, or compliance with all laws, rules and regulations of governmental agencies or authorities. All work with respect to any Alterations must be

done in a good and workmanlike manner and diligently prosecuted to completion to the end that the Premises shall at all times be a complete unit except during the period of work. Tenant shall cause all Alterations to be performed in such manner as not to obstruct the business of Landlord or interfere with the labor force working at the Project. If Tenant makes any Alterations, Tenant agrees to carry "Builder's All Risk"

insurance in an amount reasonably approved by Landlord covering the construction of such Alterations, it being understood and agreed that all of such Alterations shall be insured by Tenant pursuant to Article 10 below immediately upon completion thereof. Landlord may, in its discretion, require Tenant to obtain payment and performance bonds naming Landlord as a co-obligee and obtain and record a Statutory Lien Bond pursuant to Massachusetts General Laws, Chapter 254, Section 12 or some alternate form of security satisfactory to Landlord in an amount sufficient to ensure the lien-free completion of such Alterations and naming Landlord as a co-obligee, for any Alterations costing in excess of \$500,000. Upon completion of any Alterations, Tenant shall (i) cause, if applicable, a Notice of Substantial Completion pursuant to Massachusetts General Laws, Chapter 254, Section 2A to be executed by Tenant and its contractor and recorded with the Middlesex South District registry of Deeds and filed with the South Registry District of Middlesex County, (ii) deliver to the management office of the Building a reproducible copy of the "as built" drawings of the Alterations, and (iii) deliver to Landlord evidence of payment, contractors' affidavits and full and final waivers of all liens for labor, services or materials (except that lien waivers shall not be required for those holding contracts or otherwise performing work in connection therewith valued at less than \$35,000 in the aggregate per contractor/vendor).

8.3 Landlord's Property. All Alterations, improvements, fixtures and/or equipment which may be installed or placed in or about the Premises (including, but not limited to, all floor and wall coverings, built-in cabinet work and paneling, sinks and related plumbing fixtures, laboratory benches, exterior venting fume hoods and walk-in freezers and refrigerators, ductwork, conduits, electrical panels and circuits), shall be at the sole cost of Tenant. Upon the expiration or early termination of the Lease Term, at Landlord's election in its sole discretion, such Alterations, improvements, fixtures and/or equipment, or any of them, shall become the property of Landlord, except that Tenant shall retain ownership and be entitled to remove all fixtures and equipment paid for by Tenant's own funds provided that Tenant repairs any damage to the Premises caused by such removal. Furthermore, Landlord may, at the time of its approval of any such Alteration requested, require that Tenant remove such Alterations, improvements, fixtures and/or equipment, or any of them, upon the expiration or early termination of the Lease Term, and repair any damage to the Premises and Building caused by such removal. If Tenant fails to complete such removal and/or to repair by the end of the Lease Term, Landlord may do so and may charge the cost thereof to Tenant. Notwithstanding any other provision of this Article 8 to the contrary, in no event shall Tenant remove any improvement from the Premises as to which Landlord contributed payment, including the Tenant Improvements, without Landlord's prior written consent, which consent Landlord may withhold in its sole and absolute discretion.

8.4 Wi-Fi Network. Without limiting the generality of the foregoing, if Tenant desires to install wireless intranet, Internet and communications network ("**Wi-Fi Network**") in the Premises for the use by Tenant and its employees, then the same shall be subject to the provisions of this Section 8.4 (in addition to the other provisions of this Article 8). In the event Tenant installs such Wi-Fi Network, Tenant may, but shall not be obligated to, remove the Wi-Fi Network from the Premises prior to the termination of the Lease. In the event that Tenant leaves the Wi-Fi Network at the expiration or earlier termination of the Lease Term, Tenant shall leave any Wi-Fi Network cabling clearly labeled. Landlord makes no representation that the Wi-Fi Network will be able to receive or transmit communication signals without interference or disturbance. Tenant shall (i) be solely responsible for any damage caused as a result of the Wi-Fi Network, (ii) promptly pay any tax, license or permit fees charged pursuant to any laws or regulations in connection with the installation, maintenance or use of the Wi-Fi Network and comply with all precautions and safeguards recommended by all governmental authorities, (iii) pay for all necessary repairs, replacements to or maintenance of the Wi-Fi Network, and (iv) be responsible for any modifications, additions or repairs to the Building or Project, including without limitation, Building or Project systems or infrastructure, which are required by reason of the installation, operation or removal of Tenant's Wi-Fi Network.

ARTICLE 9

COVENANT AGAINST LIENS

Tenant has no authority or power to cause or permit any lien or encumbrance of any kind whatsoever, whether created by act of Tenant, operation of law or otherwise, to attach to or be placed upon the Project, Building or Premises, and any and all liens and encumbrances created by Tenant shall attach to Tenant's interest only. Landlord shall have the right at all times to post and keep posted on the Premises any notice which it deems necessary for protection from such liens. Tenant shall not cause or permit any lien of mechanics or materialmen or others to be placed against the Project, the Building or the Premises with respect to work or services claimed to have been performed for or materials claimed to have been furnished to Tenant (other than that performed by Landlord), and, in case of any such lien attaching or notice of any lien, any Tenant shall take all actions required by Landlord's title insurance company such that said title insurance company shall remove or "insure over" any such lien or notice of contract with respect to any title insurance policies issued to Landlord or Landlord's lender(s) with respect to the Project, except in case of a Notice of Contract pursuant to Massachusetts General Laws Chapter 254, Sections 2, 2C, 2D or 4, which Landlord acknowledges contractors have, subject to the terms and conditions of such laws, a right to file, Tenant shall cause a Notice of Substantial Completion to be filed upon completion of the work. If any such action has not been taken by Tenant within fifteen (15) business days after Landlord notified Tenant of the existence of such lien or notice, then Landlord may, at its option, take all action necessary to release and remove such lien, without any duty to investigate the validity thereof, and all sums, costs and expenses, including reasonable attorneys' fees and costs, incurred by Landlord in connection with such lien shall be deemed Additional Rent under this Lease and shall immediately be due and payable by Tenant; provided, however, Tenant shall have the right, but not the obligation, to contest the validity of any such lien provided that Tenant deposits with Landlord such security as Landlord shall reasonably demand to ensure the payment of the lien claim. In the event that Tenant leases or finances the acquisition of equipment, furnishings or other personal property of a removable nature utilized by Tenant in the operation of Tenant's business, Tenant warrants that any Uniform Commercial Code financing statement shall, upon its face or by exhibit thereto, indicate that such financing statement is applicable only to removable personal property of Tenant located within the Premises. In no event shall the address of the Premises be furnished on a financing statement without qualifying language as to applicability of the lien only to removable personal property located in within the Premises. Should any holder of a financing statement record or place of record a financing statement that appears to constitute a lien against any interest of

Landlord or against equipment that may be located other than within Premises leased by Tenant, Tenant shall, within fifteen (15) days after filing such financing statement, cause (a) a copy of the Lender security agreement or other documents to which the financing statement pertains to be furnished to Landlord to facilitate Landlord's ability to demonstrate that the lien of such financing statement is not applicable to Landlord's interest and (b) Tenant's lender to amend such financing statement and any other documents of record to clarify that any liens imposed thereby are not applicable to any interest of Landlord in the Premises.

ARTICLE 10

INDEMNIFICATION AND INSURANCE

10.1 Indemnification and Waiver. Tenant hereby assumes all risk of damage to property and injury to persons, in, on, or about the Premises from any cause whatsoever and agrees that Landlord and the Landlord Parties shall not be liable for, and are hereby released from any responsibility for, any damage to property or injury to persons or resulting from the loss of use thereof on account of such damage or injury, which damage or injury is sustained by Tenant or by other persons claiming through Tenant, except to the extent caused by the willful misconduct or negligence of Landlord or any Landlord Party. Tenant shall indemnify, defend, protect, and hold harmless the Landlord Parties from any and all loss, cost, damage, expense and liability (including without limitation court costs and reasonable attorneys' fees) incurred in connection with or arising from any cause in, on or about the Premises (including, without limitation, Tenant's installation, placement and removal of Alterations, improvements, fixtures and/or equipment in, on or about the Premises), and any acts, omissions or negligence of Tenant or of any person claiming by, through or under Tenant, or of the contractors, agents, servants, employees, licensees or invitees of

Tenant; provided, however, that the terms of the foregoing indemnity shall not apply to (i) the negligence or willful misconduct of Landlord or any Landlord Party, and (ii) Tenant's indemnity obligations shall not extend to loss of business, loss of profits or other consequential damages which may be suffered by Landlord. The provisions of this Section 10.1 shall survive the expiration or sooner termination of this Lease with respect to events occurring during the Term. Notwithstanding anything in this Lease to the contrary but subject to Landlord's indemnity obligations in Section 10.7 below, Landlord shall not be liable to Tenant for, and Tenant assumes all risk of, damage to personal property or scientific research resulting from such damage, including loss of records kept by Tenant within the Premises and damage or losses caused by fire, electrical malfunction, gas explosion or water damage of any type (including broken water lines, malfunctioning fire sprinkler systems, malfunctioning lab systems including any malfunction of the central plant systems, roof leaks or stoppages of lines). Tenant further waives any claim for injury to Tenant's business or loss of income relating to any such damage or destruction of personal property as described above.

10.2 Tenant's Compliance with Landlord's Fire and Casualty Insurance. Tenant shall, at Tenant's expense, comply as to the Premises with all commercially reasonable insurance company requirements pertaining to the use of the Premises. If Tenant's conduct or use of the Premises causes any increase in the premium for such insurance policies, then Tenant shall reimburse Landlord for any such increase. Tenant, at Tenant's expense, shall comply with all applicable rules, orders, regulations or requirements of the American Insurance Association (formerly the National Board of Fire Underwriters) and with any similar body.

10.3 Tenant's Insurance. Tenant shall maintain the following coverages in the following amounts:

10.3.1 Commercial General Liability Insurance covering the insured against claims of bodily injury, personal injury and property damage arising out of Tenant's operations, assumed liabilities or use of the Premises, including a Broad Form Commercial General Liability endorsement covering the insuring provisions of this Lease and the performance by Tenant of the indemnity agreements set forth in Section 10.1 above, (and liquor liability coverage if alcoholic beverages are served on the Premises) for limits of liability not less than:

Bodily Injury and	\$ 10,000,000 each occurrence
Property Damage Liability	\$ 10,000,000 annual aggregate
Personal Injury Liability	\$ 10,000,000 each occurrence
	\$ 10,000,000 annual aggregate

10.3.2 Physical Damage Insurance covering (i) all furniture, trade fixtures, equipment, merchandise and all other items of Tenant's property on the Premises installed by, for, or at the expense of Tenant, (ii) the Tenant Improvements, including any Tenant Improvements which Landlord permits to be installed above the ceiling of the Premises or below the floor of the Premises, and (iii) all other improvements, alterations and additions to the Premises, including any improvements, alterations or additions installed at Tenant's request above the ceiling of the Premises or below the floor of the Premises (provided, however, Landlord will be responsible, at its cost and expense, for carrying builder's risk insurance for the work under the Tenant Work Letter). Such insurance shall be written on a "physical loss or damage" basis under a "special form" policy, for the full replacement cost value new without deduction for depreciation of the covered items and in amounts that meet any co-insurance clauses of the policies of insurance and shall include a vandalism and malicious mischief endorsement and sprinkler leakage coverage.

10.3.3 Workers' compensation insurance as required by law.

10.3.4 Loss-of-income, business interruption and extra-expense insurance in such amounts as will reimburse Tenant for direct and indirect loss of earnings attributable to all perils commonly insured against by prudent tenants or attributable to prevention of loss of access to the Premises or to the Building as a result of such perils.

10.3.5 Tenant shall carry commercial automobile liability insurance having a combined single limit of not less than Two Million Dollars (\$2,000,000.00) per occurrence and insuring Tenant against liability for claims arising out of ownership, maintenance or use of any owned, hired or non-owned automobiles.

10.3.6 Environmental Liability insurance (in form and substance satisfactory to Landlord) with limits of coverage not less than Five Million Dollars (\$5,000,000.00) combined per occurrence and in the aggregate insuring against any and all liability for which Tenant is responsible for under the express terms of this Lease with respect to the Premises and all areas appurtenant thereto arising out of any death or injury to any person, damage or destruction of any property, other loss, cost or expense resulting from any release, spill, leak or other contamination of the Premises, or any other property surrounding the Premises attributable to the presence of Hazardous Materials. If, at any time it reasonably appears to Landlord that Tenant is not maintaining sufficient insurance or other means of financial capacity to enable Tenant to fulfill its obligations to Landlord hereunder, whether or not then accrued, liquidated, conditional or contingent, Tenant shall procure and thereafter maintain in full force and effect such insurance or other form of financial assurance, in form and substance reasonably acceptable to Landlord and from companies having a rating of not less than A-/VII in Best's Insurance Guide, as Landlord may from time to time reasonably request. Without limiting the generality of the foregoing, all such environmental liability insurance shall specifically insure the performance by Tenant of the indemnity provisions set forth in this Lease.

10.3.7 Form of Policies. The minimum limits of policies of insurance required of Tenant under this Lease shall in no event limit the liability of Tenant under this Lease. Such insurance shall: (i) name Landlord, and any other party it so specifies in writing to Tenant, as an additional insured with respect to the commercial general liability insurance; (ii) specifically cover the liability assumed by Tenant under this Lease, including, but not limited to, Tenant's obligations under Section 10.1 above; (iii) be issued by an insurance company having a rating of not less than A-/VII in Best's Insurance Guide or which is otherwise acceptable to Landlord and authorized to do business in the state in which the Project is located; (iv) be primary insurance as to all claims thereunder and provide that any insurance carried by Landlord is excess and is non-contributing with any insurance requirement of Tenant; (v) provide that said insurance shall not be canceled or coverage changed unless thirty (30) days' prior written notice shall have been given to Landlord and any mortgagee or ground or underlying lessor of Landlord (provided Tenant will not be in default if the insurance company refuses to provide such assurance); (vi) contain a cross-liability endorsement or severability of interest clause acceptable to Landlord; and (vii) with respect to the insurance required in Sections 10.3.1, 10.3.2 and 10.3.4 above, have deductible amounts not exceeding One Hundred Thousand Dollars (\$100,000.00). Tenant shall deliver certificates thereof to Landlord on or before the Lease Commencement Date and at least thirty (30) days before the expiration dates thereof. If Tenant shall fail to procure such insurance, or to deliver such certificates and endorsements, within such time periods, Landlord may, at its option, in addition to all of its other rights and remedies under this Lease, and without regard to any notice and cure periods set forth in Section 19.1, procure such policies for the account of Tenant, and the cost thereof shall be paid to Landlord as Additional Rent within thirty (30) days after delivery of bills therefor.

10.4 Waiver of Subrogation. Landlord and Tenant each hereby waive all rights of recovery against the other on account of loss and damage occasioned to the property of such waiving party to the extent that the waiving party is entitled to proceeds for such loss and damage (or would be entitled, if the policy was obtained and complied with) under any property insurance policies and workers' compensation insurance policies carried or otherwise required to be carried by this Lease; provided, however, that the foregoing waiver shall not apply to the extent of Tenant's or Landlord's obligation to pay deductibles under any such policies and this Lease. By this waiver it is the intent of the parties that neither Landlord nor Tenant shall be liable to any insurance company (by way of subrogation or otherwise) insuring the other party for any loss or damage insured against under any property insurance policies, even though such loss or damage might be occasioned by the negligence of such party, its agents, employees, contractors or invitees. The foregoing waiver by Tenant shall also inure to the benefit of Landlord's management agent for the Building.

10.5 Additional Insurance Obligations. Tenant shall carry and maintain during the entire Lease Term, at Tenant's sole cost and expense, amounts of the insurance required to be carried by Tenant pursuant to this Article 10, and such other reasonable types of insurance coverage and in such reasonable amounts covering the Premises and Tenant's operations therein, as may be reasonably requested by Landlord, consistent with industry standards.

10.6 Landlord's Insurance. During the Lease Term, Landlord, as part of Operating Expenses, shall maintain property insurance covering the Project (excluding the property which Tenant is obligated to insure pursuant to the terms hereof) in the amount of the full replacement cost thereof. Such policy shall provide protection against "all risk of physical loss". Such insurance shall be in such amounts and with such deductibles as Landlord reasonably deems appropriate but consistent with the insurance generally maintained by other institutional owners of comparable buildings in the Market Area (as defined in Rider 1 attached hereto). Landlord shall further procure and maintain commercial general liability insurance with a single loss limit of not less than \$2,000,000 for bodily injury and property damage with respect to the Project. Landlord may, but shall not be obligated to, obtain and carry any other form or forms of insurance as Landlord or Landlord's mortgagees or deed of trust beneficiaries may reasonably determine prudent; provided that the same is consistent with the insurance generally maintained by institutional owners of comparable buildings in the Market Area. Notwithstanding any contribution by Tenant to the cost of insurance as provided in this Lease, Tenant acknowledges that it has no right to receive any proceeds from any insurance policies maintained by Landlord (other than Landlord's commercial general liability insurance with respect to claims pursuant to which Tenant is entitled to such insurance proceeds) and will not be named as an additional insured thereunder.

10.7 Landlord Indemnification. Landlord shall indemnify, defend, protect, and hold harmless Tenant and the Tenant's Parties from and against any and all loss, cost, damage, expense and liability (including without limitation court costs and reasonable attorneys' fees) incurred in connection with or arising from (1) the negligence or misconduct of Landlord or the Landlord Parties in, on or about the Project, (2) any breach of any representation or warranty contained herein, (3) the use, generation, storage, treatment, or the disposal or other release of any Hazardous Materials by Landlord or any Landlord Party or otherwise relating to the Excluded Matters, or (4) any violation by Landlord of any law applicable to the Project; provided, however, that (i) the terms of the foregoing indemnity shall not apply to the negligence or willful misconduct of Tenant or the Tenant's Parties and (ii) Landlord's indemnity obligations shall not extend to loss of business, loss of profits or other consequential damages which may be suffered by Tenant. The provisions of this Section 10.7 shall survive the expiration or sooner termination of this Lease.

ARTICLE 11

DAMAGE AND DESTRUCTION

11.1 Repair of Damage to Premises by Landlord. Tenant shall promptly notify Landlord of any damage to the Premises resulting from fire or any other casualty. Landlord shall notify Tenant within sixty (60) days after its discovery of any damage to the Building or any areas of the Project as to the amount of time Landlord reasonably estimates it will take to restore the Project or portion thereof, as applicable (the "**Restoration Period**"). If the Building or any areas of the Project shall be damaged by fire or other casualty, Landlord shall promptly and diligently, subject to reasonable delays for insurance adjustment or other matters beyond Landlord's reasonable control, and subject to all other terms of this Article 11, restore the Project and the base, shell, and core of the Premises. Such restoration shall be to substantially the same condition prior to the casualty, except for modifications required by zoning and building codes and other laws or by the holder of a mortgage on the Project and/or the Building. Upon the occurrence of any damage to the Premises, Tenant shall assign to Landlord (or to any party designated by Landlord) all insurance proceeds payable to Tenant under Tenant's insurance required under Section 10.3 of this Lease (to the extent the same is for items Landlord is required to repair), and Landlord shall repair any damage to the tenant improvements and alterations installed in the Premises and shall return such tenant improvements and alterations to their original condition prior to such damage; provided that if the costs of such repair of such tenant improvements and Alterations by Landlord exceeds the amount of insurance proceeds received by Landlord therefor from Tenant's insurance carrier, as assigned by Tenant, the excess costs of such repairs shall be paid by Tenant to Landlord prior to Landlord's repair of the damage (or, at Tenant's election, the repair shall be reduced so as not to exceed the proceeds). In connection with such repairs and replacements of any such tenant improvements and Alterations, Tenant shall, prior to Landlord's commencement of such improvement work, submit to Landlord, for Landlord's review and approval, all plans, specifications and working drawings relating thereto, and Landlord shall select the contractors to perform such improvement work. Landlord shall not be liable for any inconvenience or annoyance to Tenant or its visitors, or injury to Tenant's business resulting in any way from such

damage or the repair thereof; provided however, that if such fire or other casualty shall have damaged the Premises or Tenant's access to the Premises (or the restoration activities interfere therewith), and if such damage is not the result of the negligence or willful misconduct of Tenant or Tenant's employees, contractors, licensees, or invitees, Landlord shall allow Tenant a proportionate abatement of Base Rent and Tenant's Share of Operating Expenses, Tax Expenses and Utilities Costs during the time and to the extent the Premises are unfit for occupancy for the purposes permitted under this Lease, and not occupied by Tenant as a result thereof.

11.2 Landlord's Option to Repair. Notwithstanding Section 11.1 above to the contrary, Landlord may elect not to rebuild and/or restore the Premises, the Building and/or any other portion of the Project and instead terminate this Lease by notifying Tenant in writing of such termination within sixty (60) days after the date Landlord becomes aware of such damage, such notice to include a termination date giving Tenant ninety (90) days to vacate the Premises, but Landlord may so elect only if the Building shall be damaged by fire or other casualty or cause, whether or not the Premises are affected, and one or more of the following conditions is present: (i) repairs cannot reasonably be substantially completed within two hundred seventy (270) days after the date of such damage (when such repairs are made without the payment of overtime or other premiums) (the "**Maximum Restoration Period**"); (ii) the holder of any mortgage on the Project and/or the Building or ground or underlying lessor with respect to the Project and/or the Building shall require that the insurance proceeds or any portion thereof be used to retire the mortgage debt, or shall terminate the ground or underlying lease, as the case may be; or (iii) the damage is not fully covered, except for deductible amounts, by Landlord's insurance policies. In addition, if the Premises or the Building is destroyed or damaged to any substantial extent during the last year of the Lease Term, then notwithstanding anything contained in this Article 11, Landlord or Tenant shall have the option to terminate this Lease by giving written notice to the other of the exercise of such option within thirty (30) days after such damage, in which event this Lease shall cease and terminate as of the date of such notice. In the event Landlord's estimate notice indicates that the Restoration Period for damage or destruction to the Building or portion of the Property is expected to exceed the Maximum Restoration Period, then Tenant shall have the right to terminate this Lease by written notice to Landlord within thirty (30) days following the date Tenant receives Landlord's restoration estimate notice. If the repair or restoration of the Premises and Project is not substantially complete at the end of the Maximum Restoration Period, then Tenant may elect to terminate the Lease by at least thirty (30) days prior written notice to Landlord given within thirty (30) days following expiration of the Maximum Restoration Period; provided that such termination notice shall be null and void if Landlord substantially completes the restoration within such thirty (30) day period. Upon any such termination of this Lease pursuant to this Section 11.2, Tenant shall pay the Base Rent and Additional Rent, properly apportioned (based on the time and to the extent the Premises are unfit for occupancy for the purposes permitted under this Lease, and not occupied by Tenant as a result thereof) up to such date of termination, and both parties hereto shall thereafter be discharged of all further obligations under this Lease, except for those obligations which expressly survive the expiration or earlier termination of the Lease Term. In the event of any termination of this Lease as a result of a casualty, Tenant shall be entitled to all insurance proceeds relating to Alterations or improvements to the extent paid by Tenant.

11.3 Waiver of Statutory Provisions. The provisions of this Lease, including this Article 11, constitute an express agreement between Landlord and Tenant with respect to any and all damage to, or destruction of, all or any part of the Premises, the Building or any other portion of the Project, and any statute or regulation of the state in which the Project is located, with respect to any rights or obligations concerning damage or destruction in the absence of an express agreement between the parties, and any other statute or regulation, now or hereafter in effect, shall have no application to this Lease or any damage or destruction to all or any part of the Premises, the Building or any other portion of the Project.

ARTICLE 12

CONDEMNATION

12.1 Permanent Taking. If the whole or any material part of the Premises, Building or Project shall be taken by power of eminent domain or condemned by any competent authority for any public or quasi-public use or purpose, and the taking would either prevent or materially interfere with Tenant's use of, or access to, the Premises (as determined by Tenant, in Tenant's reasonable judgment), then upon written notice by Landlord or Tenant this

Lease shall terminate and all rent shall be apportioned as of said date. In the event a taking affects Tenant's reasonable access to the Premises, more than 10% of the Premises (whether or not it interferes with Tenant's use of the Premises), or otherwise renders the Premises unsuitable for Tenant's business in the good faith of Tenant, then Tenant may terminate this Lease upon written notice to Landlord, in which case this Lease shall terminate and the all rent shall be apportioned as of such date. Landlord shall be entitled to receive the entire award or payment in connection therewith, except that Tenant shall have the right to file any separate claim available to Tenant for any taking of Tenant's personal property and fixtures belonging to Tenant and removable by Tenant upon expiration of the Lease Term pursuant to the terms of this Lease, and for moving expenses, so long as such claim does not diminish the award available to Landlord, or its ground lessor or mortgagee with respect to the Project, and such claim is payable separately to Tenant. All Rent shall be apportioned as of the date of such termination, or the date of such taking, whichever shall first occur. If any part of the Project shall be taken, and this Lease shall not be so terminated, then Landlord shall promptly restore the Premises and the Project as nearly as is commercially reasonable under the circumstance to their condition prior to such partial taking and the rentable square footage of the Building, the rentable square footage of the Premises, Base Rent and Tenant's Share of Operating Expenses, Tax Expenses and Utilities Costs shall be proportionately abated (and also taking into account loss of parking).

12.2 Temporary Taking. Notwithstanding anything to the contrary contained in this Article 12, in the event of a temporary taking of all or any portion of the Premises for a period of one hundred and eighty (180) days or less, then this Lease shall not terminate but the Base Rent and Tenant's Share of Operating Expenses, Tax Expenses and Utilities Costs shall be abated for the period of such taking in proportion to the ratio that the amount of rentable square feet of the Premises taken bears to the total rentable square feet of the Premises. Landlord shall be entitled to receive the entire award made in connection with any such temporary taking.

ARTICLE 13

COVENANT OF QUIET ENJOYMENT

Landlord covenants that Tenant, on paying the Rent, charges for services and other payments herein reserved and on keeping, observing and performing all the other terms, covenants, conditions, and agreements herein contained on the part of Tenant to be kept, observed and performed, shall, during the Lease Term, peaceably and quietly have, hold and enjoy the Premises subject to the terms, covenants, conditions, and agreements hereof without interference by any persons. The foregoing covenant is in lieu of any other covenant express or implied.

ARTICLE 14

ASSIGNMENT AND SUBLETTING

14.1 Transfers. Tenant shall not, without the prior written consent of Landlord, assign, mortgage, pledge, hypothecate, encumber, or permit any lien to attach to, or otherwise transfer, this Lease or any interest hereunder, permit any assignment or other such foregoing transfer of this Lease or any interest hereunder by operation of law, sublet the Premises or any part thereof, or permit the use of the Premises by any persons other than Tenant and its employees (all of the foregoing are hereinafter sometimes referred to collectively as "**Transfers**" and any person to whom any Transfer is made or sought to be made is hereinafter sometimes referred to as a "**Transferee**"). If Tenant shall desire Landlord's consent to any Transfer, Tenant shall notify Landlord in writing, which notice (the "**Transfer Notice**") shall include (i) the proposed effective date of the Transfer, which shall not be less than fifteen (15) days nor more than one hundred eighty (180) days after the date of delivery of the Transfer Notice, (ii) a description of the portion of the Premises to be transferred (the "**Subject Space**"), (iii) all of the terms of the proposed Transfer, the name and address of the proposed Transferee, and a copy of the proposed sublease or assignment document, (iv) current financial statements of the proposed Transferee certified by an officer, partner or owner thereof (subject to Landlord executing a reasonable confidentiality agreement), (v) a list of Hazardous Materials, certified by the proposed Transferee to be true and correct, that the proposed Transferee intends to use or store in the Subject Space, and (vi) such other information as Landlord may reasonably require. Any Transfer made without Landlord's prior written consent shall, at Landlord's option, be null, void and of no effect, and shall, at Landlord's option, constitute a default by Tenant under this Lease. Whether or not Landlord shall grant consent,

within thirty (30) days after written request by Landlord, Tenant shall pay to Landlord Two Thousand Five Hundred Dollars (\$2,500.00) to reimburse Landlord for its review, processing, and legal fees incurred by Landlord in connection with Tenant's proposed Transfer.

14.2 Landlord's Consent. Landlord shall not unreasonably withhold, condition or delay its consent to any proposed Transfer on the terms specified in the Transfer Notice and shall grant or deny its consent within fifteen (15) days following request therefor. In no event shall Landlord be deemed to be unreasonable for declining to consent to a Transfer to a transferee jeopardizing directly or indirectly the status of Landlord or any of Landlord's affiliates as a Real Estate Investment Trust under the Internal Revenue Code of 1986 (as the same may be amended from time to time, the "**Revenue Code**"). Notwithstanding anything contained in this Lease to the contrary, (x) no Transfer shall be consummated on any basis such that the rental or other amounts to be paid by the occupant, assignee, manager or other transferee thereunder would be based, in whole or in part, on the income or profits derived by the business activities of such occupant, assignee, manager or other transferee; (y) Landlord may withhold its consent to a Transfer with any person in which Landlord owns an interest, directly or indirectly (by applying constructive ownership rules set forth in Section 856(d)(5) of the Revenue Code); and (z) Tenant shall not consummate a Transfer with any person or in any manner that would cause any portion of the

amounts received by Landlord pursuant to this Lease or any sublease, license or other arrangement for the right to use, occupy or possess any portion of the Premises to fail to qualify as "rents from real property" within the meaning of Section 856(d) of the Revenue Code, or any similar or successor provision thereto. The parties hereby agree that it shall be reasonable under this Lease and under any applicable law for Landlord to withhold consent to any proposed Transfer where one or more of the following apply, without limitation as to other reasonable grounds for withholding consent:

14.2.1 The Transferee is of a character or reputation or engaged in a business which is not consistent with the quality of the Building or Project;

14.2.2 The Transferee intends to use the Subject Space for purposes which are not permitted under this Lease;

14.2.3 The Transferee is either a governmental agency or instrumentality thereof;

14.2.4 The Transferee is not a party of reasonable financial worth and/or financial stability in light of the responsibilities involved under the Lease on the date consent is requested; or

14.2.5 Either the proposed Transferee, or any person or entity which directly or indirectly, controls, is controlled by, or is under common control with, the proposed Transferee, (i) is negotiating with Landlord to lease space in the Project at such time, or (ii) has negotiated with Landlord during the three (3)-month period immediately preceding the Transfer Notice for space in the Project.

If Landlord consents to any Transfer pursuant to the terms of this Section 14.2 (and does not exercise any recapture rights Landlord may have under Section 14.4 below), Tenant may within six (6) months after Landlord's consent, enter into such Transfer of the Premises or portion thereof, upon substantially the same terms and conditions as are set forth in the Transfer Notice furnished by Tenant to Landlord pursuant to Section 14.1 above, provided that if there are any material changes in the terms and conditions from those specified in the Transfer Notice (i) such that Landlord would initially have been entitled to refuse its consent to such Transfer under this Section 14.2, or (ii) which would cause the proposed Transfer to be materially more favorable to the Transferee than the terms set forth in Tenant's original Transfer Notice, Tenant shall again submit the Transfer to Landlord for its approval and other action under this Article 14 (including Landlord's right of recapture, if any, under Section 14.4 of this Lease).

14.3 Transfer Premium. If Landlord consents to a Transfer, as a condition thereto which the parties hereby agree is reasonable, Tenant shall pay to Landlord fifty percent (50%) of any Transfer Premium received by Tenant from such Transferee. "**Transfer Premium**" shall mean all rent and additional rent payable by such Transferee in

excess of the Rent and Additional Rent payable by Tenant under this Lease on a per rentable square foot basis if less than all of the Premises is transferred, after deducting all reasonable expenses incurred by Tenant, including, without limitation, (i) any reasonable changes, alterations and improvements to the Premises in

connection with the Transfer (but only to the extent approved by Landlord), (ii) any reasonable legal costs, advertising costs, or brokerage commissions in connection with the Transfer (collectively, the “**Subleasing Costs**”). Transfer Premium shall also include, but not be limited to, key money and bonus money paid by Transferee to Tenant for the Transfer of the Lease, and any payment in excess of fair market value for services rendered by Tenant to Transferee or for assets, fixtures, inventory, equipment, or furniture transferred by Tenant to Transferee in connection with such Transfer. Notwithstanding the foregoing and for the avoidance of doubt, there shall be no Transfer Premium in connection with any of the transactions contemplated in Section 14.7.

14.4 Landlord’s Option as to Subject Space. Notwithstanding anything to the contrary contained in this Article 14, Landlord shall have the option, by giving written notice to Tenant within ten (10) days after receipt of any Transfer Notice for an assignment or a sublease of the entire Premises, to recapture the Subject Space; provided that with respect to subleases, the foregoing recapture right shall only apply to a proposed subleases with a term for the balance of the then-remaining Lease Term. If Landlord exercises such right of recapture, then Tenant may within ten (10) business days after receipt of Landlord elect to withdraw its Transfer Notice, and in such event the Lease shall continue in full force and effect. If Tenant does not timely elect to withdraw its request, the recapture notice shall terminate this Lease with respect to the Subject Space as of the date stated in the Transfer Notice as the effective date of the proposed Transfer until the last day of the term of the Transfer as set forth in the Transfer Notice. If Landlord declines, or fails to elect in a timely manner to recapture the Subject Space under this Section 14.4, then, provided Landlord has consented to the proposed Transfer, Tenant shall be entitled to proceed to transfer the Subject Space to the proposed Transferee, subject to provisions of the last paragraph of Section 14.2 above. Notwithstanding the foregoing and for the avoidance of doubt, Landlord shall have no right to recapture in connection with any of the transactions completed in Section 14.7.

14.5 Effect of Transfer. If Landlord consents to a Transfer: (i) the terms and conditions of this Lease shall in no way be deemed to have been waived or modified; (ii) such consent shall not be deemed consent to any further Transfer by either Tenant or a Transferee; (iii) Tenant shall deliver to Landlord, promptly after execution, an original executed copy of the sublease or assignment document; and (iv) no Transfer relating to this Lease or agreement entered into with respect thereto, whether with or without Landlord’s consent, shall relieve Tenant or any guarantor of the Lease from liability under this Lease. Subject to executing Tenant’s standard confidentiality agreement, Landlord or its authorized representatives shall have the right at all reasonable times to audit the books, records and papers of Tenant relating to any Transfer Premium, and shall have the right to make copies thereof. If the Transfer Premium respecting any Transfer shall be found understated, Tenant shall, within thirty (30) days after demand, pay the deficiency and Landlord’s costs of such audit.

14.6 Intentionally Omitted

14.7 Affiliated Companies/Restructuring of Business Organization. Neither (A) the Transfer by Tenant of all or any portion of this Lease or the Premises to (i) a parent, subsidiary, or affiliate of Tenant, or (ii) any person or entity which controls, is controlled by or under common control with Tenant, or (iii) any entity which purchases all or substantially all of the assets of Tenant in one or a series of transactions, or (iv) a successor entity to Tenant resulting from merger, consolidation, non-bankruptcy reorganization, or governmental action (all such persons or entities described in (i), (ii), (iii) and (iv) being sometimes hereinafter referred to as “**Affiliates**”), nor (B) any transfer of the stock or other beneficial interests of Tenant, shall be deemed a Transfer under this Article 14, provided that:

14.7.1 Any such Affiliate was not formed, nor was such financing intended, as a subterfuge to avoid the obligations of this Article 14;

14.7.2 Tenant gives Landlord prior written notice of any such assignment, sublease, financing or public offering, unless precluded by non-disclosure obligations, including, without limitation, securities laws or regulations or other confidentiality restrictions, in which case Tenant shall notify Landlord promptly thereafter;

14.7.3 Any such Affiliate has, following the effective date of any such assignment, sublease, financing or public offering, a tangible net worth, in the aggregate, computed in accordance with generally accepted accounting principles, which is equal to or greater than Tenant as of the date prior to the Transfer;

14.7.4 In the case of an assignment or sublease, any such Affiliate shall assume, in a written document delivered to Landlord upon or prior to the effective date of such assignment or sublease (unless precluded by non-disclosure obligations, in which case Tenant shall provide to Landlord as soon as possible thereafter), all the obligations of Tenant under this Lease, and any such Affiliate sublessee shall acknowledge, in a written document delivered to Landlord upon or prior to the effective date of such sublease, that its rights are subordinate to this Lease and that it agrees not to violate any provision of this Lease; and

14.7.5 To the extent Tenant remains in existence, Tenant shall remain fully liable for all obligations to be performed by Tenant under this Lease.

Landlord shall not be entitled to any Transfer Premium or right of recapture in connection with any Transaction pursuant to this Section 14.7

The original Tenant executing this Lease is referred to herein as the “**Original Tenant.**” An Affiliate that is a successor of Original Tenant’s entire interest in this Lease may be referred to as an “**Affiliate Assignee.**”

ARTICLE 15

SURRENDER; OWNERSHIP AND REMOVAL OF PERSONAL PROPERTY

15.1 Surrender of Premises. No act or thing done by Landlord or any agent or employee of Landlord during the Lease Term shall be deemed to constitute an acceptance by Landlord of a surrender of the Premises unless such intent is specifically acknowledged in a writing signed by Landlord. The delivery of keys to the Premises to Landlord or any agent or employee of Landlord shall not constitute a surrender of the Premises or effect a termination of this Lease, whether or not the keys are thereafter retained by Landlord, and notwithstanding such delivery Tenant shall be entitled to the return of such keys at any reasonable time upon request until this Lease shall have been properly terminated. The voluntary or other surrender of this Lease by Tenant, whether accepted by Landlord or not, or a mutual termination hereof, shall not work a merger, and at the option of Landlord shall operate as an assignment to Landlord of all subleases or subtenancies affecting the Premises.

15.2 Removal of Tenant Property by Tenant. Upon the expiration of the Lease Term, or upon any earlier termination of this Lease, Tenant shall, subject to the provisions of this Article 15, quit and surrender possession of the Premises to Landlord in good order and condition, reasonable wear and tear, casualty loss and condemnation, damage by Landlord or any Landlord Party, and repairs which are specifically made the responsibility of Landlord hereunder excepted. Tenant’s restoration obligations may also include satisfying Landlord’s commercially reasonable procedures regarding the cleaning of any lab systems and sealing any connection points of any such lab systems to the Premises, all at Tenant’s sole cost and expense; provided that Landlord has provided the requirement for such procedures at least one hundred twenty (120) days prior to Tenant’s surrender of the Premises. Prior to Tenant’s surrender of possession of any part of the Premises, Tenant shall provide Landlord with (a) a facility decommissioning and Hazardous Materials closure plan for the Premises (“**Exit Survey**”) prepared by an independent third party reasonably acceptable to Landlord, and (b) written evidence of all appropriate governmental releases obtained by Tenant in accordance with applicable laws, including laws pertaining to the surrender of the Premises. In addition, Tenant agrees to remain responsible after the surrender of the Premises for the remediation of any recognized environmental conditions set forth in the Exit Survey to the extent such recognized environmental conditions were caused by Tenant or the Tenant’s Parties and compliance with any recommendations set forth in the Exit Survey to the extent relating to recognized environmental conditions caused by Tenant or the Tenant’s Parties.

Tenant shall, upon the expiration or earlier termination of this Lease, furnish to Landlord evidence that Tenant has closed all governmental permits and licenses, if any, issued in connection with Tenant's or Tenant's Parties' activities at the Premises. Upon such expiration or termination of this Lease, Tenant may, but shall not be obligated to, remove or cause to be removed from the Premises all telephone, data, and other cabling and wiring (including any cabling and wiring associated with the Wi-Fi Network, if any) installed or caused to be installed by Tenant (including any cabling and wiring, installed above the ceiling of the Premises or below the floor of the Premises), and Tenant shall label the same if not removed. Tenant shall remove all debris and rubbish, and such items of furniture, equipment, free-standing cabinet work, and other articles of personal property owned by Tenant or installed or placed by Tenant at its expense in the Premises, and such similar articles of any other persons claiming under Tenant, and Tenant shall repair at its own expense all damage to the Premises and Building resulting from such removal. Tenant's obligations under this Section 15.2 shall survive the expiration or earlier termination of this Lease.

ARTICLE 16

HOLDING OVER

If Tenant holds over after the expiration of the Lease Term hereof, with or without the express or implied consent of Landlord, such tenancy shall be at sufferance, and shall not constitute a renewal hereof or an extension for any further term, and in such case Base Rent shall be payable at a monthly rate (prorated on a daily basis) equal to one hundred fifty percent (150%) of the Base Rent applicable during the last rental period of the Lease Term under this Lease. Such tenancy at sufferance shall be subject to every other term, covenant and agreement contained herein. Landlord hereby expressly reserves the right to require Tenant to surrender possession of the Premises to Landlord as provided in this Lease upon the expiration or other termination of this Lease. The provisions of this Article 16 shall not be deemed to limit or constitute a waiver of any other rights or remedies of Landlord provided herein or at law. If Tenant fails to surrender the Premises upon the termination or expiration of this Lease, in addition to any other liabilities to Landlord accruing therefrom, Tenant shall, to the extent permitted by applicable law, protect, defend, indemnify and hold Landlord harmless from all loss, costs (including reasonable attorneys' fees) and liability resulting from such failure, including, without limiting the generality of the foregoing, commencing on the date that is sixty (60) days following such holdover, any claims made by any succeeding tenant founded upon such failure to surrender and any lost profits to Landlord resulting therefrom.

ARTICLE 17

ESTOPPEL CERTIFICATES

Within ten (10) business days following a request in writing by Landlord, Tenant shall execute and deliver to Landlord an estoppel certificate, which, as submitted by Landlord, shall be in a commercially customary form as may be reasonably required by any existing or prospective mortgagee or purchaser of the Project (or any portion thereof), indicating therein any exceptions thereto that may exist at that time, and shall also contain any other information reasonably requested by Landlord or Landlord's mortgagee or Landlord's prospective mortgagees. Failure of Tenant to timely execute and deliver or dispute such estoppel certificate shall constitute an acceptance of the Premises and an acknowledgment by Tenant that statements included in the estoppel certificate are true and correct, without exception. Failure by Tenant to so deliver such estoppel certificate shall be a material default of the provisions of this Lease. Within ten (10) business days following a request in writing by Tenant, Landlord shall execute and deliver to Tenant an estoppel certificate, which, as submitted by Tenant, shall be in the form as may be reasonably required by any prospective lender, investor, assignee, or subtenant, indicating therein any exceptions thereto that may exist at that time, and shall also contain any other information reasonably requested by Tenant or Tenant's prospective lenders, investors, assignees, or subtenants. Any such statement may be relied upon by any prospective lender, investor, assignee or subtenant. Upon request from time to time (but no more often than once per calendar year unless required in connection with a recapitalization, financing or refinancing, or sale of the Project), Tenant agrees to provide to Landlord, within fifteen (15) business days after Landlord's delivery of written request therefor, current financial statements for Tenant, dated no earlier than one (1) year prior to such written request, certified as materially accurate by Tenant or, if available, audited financial statements prepared by an independent

certified public accountant with copies of the auditor's statement, all of which shall be treated by Landlord as confidential information belonging to Tenant and shall be subject to Landlord entering into a reasonable form of non-disclosure agreement.

ARTICLE 18

SUBORDINATION

This Lease is subject and subordinate to all present and future ground leases of the Project and to the lien of any mortgages or trust deeds, now or hereafter in force against the Project, if any, and to all renewals, extensions, modifications, consolidations and replacements thereof, and to all advances made or hereafter to be made upon the security of such mortgages or trust deeds, unless the holders of such mortgages or trust deeds, or the lessors under such ground lease, require in writing that this Lease be superior thereto; provided, however, in all cases, so long as there is no default under this Lease (beyond any applicable notice and cure periods), Tenant's right to possession of the Premises in accordance with the terms of this Lease shall not be disturbed by any such ground lessor or holder of a mortgage/deed of trust and their successors (including purchasers at a foreclosure) and Tenant's right under this Lease shall be recognized by such ground lessor or holder and their successors (including purchasers at a foreclosure). Tenant covenants and agrees in the event any proceedings are brought for the foreclosure of any such mortgage, or if any ground lease is terminated, to attorn, without any deductions or set-offs whatsoever, to the purchaser upon any such foreclosure sale, or to the lessor of such ground lease, as the case may be, if so requested to do so by such purchaser or lessor, and to recognize such purchaser or lessor as the lessor under this Lease. Tenant shall, within fifteen (15) business days of request by Landlord, execute such further commercially reasonable instruments or assurances as Landlord may reasonably deem necessary to evidence or confirm the subordination or superiority of this Lease to any such mortgages, trust deeds, or ground leases, provided that any such instruments contain commercially reasonable non-disturbance provisions assuring Tenant's quiet enjoyment of the Premises in accordance with the terms of this Lease and that Tenant's rights under this Lease shall be recognized by such ground lessor or holder and their successors (including purchasers at a foreclosure). Tenant waives the provisions of any current or future statute, rule or law which may give or purport to give Tenant any right or election to terminate or otherwise adversely affect this Lease and the obligations of the Tenant hereunder in the event of any foreclosure proceeding or sale. As of the date of this Lease, Landlord represents and warrants to Tenant that there is no existing mortgage, trust deeds, or ground lease encumbering the Project (or any portion thereof) other than SBNP SIA Mortgage III LLC. Within ten (10) business days after the full execution of this Lease, Landlord shall obtain and deliver to Tenant a fully executed non-disturbance agreement from the holder of any pre-existing mortgage encumbering the Project (or any portion thereof) in the form attached hereto as **Exhibit E**. If during the Lease Term, there is a future mortgage, trust deed, or ground lease encumbering all or any portion of the Project, Landlord agrees, as a condition to subordination of this Lease to such mortgage, trust, deed or ground lease, to cause the holder of such mortgage or

trust deed, or ground lessor of such ground lease to enter into a commercially reasonable form of subordination, non-disturbance and attornment agreement with Tenant with respect to this Lease, the form of which shall be a commercially reasonable form provided by the mortgagee, trust, deed holder or ground lessor (provided the same recognizes Tenant's rights under this Lease), incorporating such commercially reasonable modifications requested by Tenant.

ARTICLE 19

TENANT'S DEFAULTS; LANDLORD'S REMEDIES

19.1 Events of Default by Tenant. All covenants and agreements to be kept or performed by Tenant under this Lease shall be performed by Tenant at Tenant's sole cost and expense and without any reduction of Rent (except as expressly provided herein). The occurrence of any of the following shall constitute a default of this Lease by Tenant:

19.1.1 Any failure by Tenant to pay any Rent, Additional Rent or any other charge required to be paid under this Lease, or any part thereof, within five (5) business days after notice that such amounts are past due

(provided that Landlord shall have no obligation to give notices more than one (1) time in any 12 month period for regularly scheduled payments);

19.1.2 Any failure by Tenant to observe or perform any other provision, covenant or condition of this Lease to be observed or performed by Tenant (other than the payment of Rent or Additional Rent) where such failure continues for thirty (30) days after written notice thereof from Landlord to Tenant; provided however that if the nature of such default is such that the same cannot reasonably be cured within a thirty (30)-day period, Tenant shall not be deemed to be in default if it diligently commences such cure within such period and thereafter diligently proceeds to rectify and cure said default as soon as possible;

19.1.3 Intentionally omitted;

19.1.4 Tenant makes an assignment for the benefit of creditors;

19.1.5 A receiver, trustee or custodian is appointed to or does take title, possession or control of all or substantially all of Tenant's assets;

19.1.6 Tenant files a voluntary petition under the United States Bankruptcy Code or any successor statute (as the same may be amended from time to time, (the "**Bankruptcy Code**") or an order for relief is entered against Tenant pursuant to a voluntary or involuntary proceeding commenced under any chapter of the Bankruptcy Code;

19.1.7 Any involuntary petition is filed against Tenant under any chapter of the Bankruptcy Code and is not dismissed within one hundred twenty (120) days;

19.1.8 Intentionally omitted;

19.1.9 Tenant fails to deliver an estoppel certificate in accordance with Article 17 after notice and an additional five (5) business day period to cure same; or

19.1.10 Tenant's interest in this Lease is attached, executed upon or otherwise judicially seized and such action is not released within one hundred twenty (120) days of the action.

19.2 Landlord's Remedies Upon Default. Upon the occurrence of any such default by Tenant, Landlord shall have, in addition to any other remedies available to Landlord at law or in equity, the option to pursue any one or more of the following remedies, each and all of which shall be cumulative and nonexclusive, without any notice or demand whatsoever.

19.2.1 Upon the happening and during the continuance of any one or more of the aforementioned defaults beyond the applicable notice and cure periods (notwithstanding any license of a former breach of covenant or waiver of the benefit hereof or consent in a former instance), Landlord or Landlord's agents or servants may, without limitation of any other rights and remedies Landlord may have, at law or in equity, as a result of any default of Tenant under this Lease, give to Tenant a notice terminating this Lease on a date specified in such notice of termination (which shall be not less than ten (10) days after the date of the giving such notice of termination), and this Lease and the Term, as well as any and all of the right, title and interest of the Tenant hereunder, shall wholly cease and expire on the date set forth in such notice of termination (Tenant hereby waiving any rights of redemption) in the same manner and with the same force and effect as if such date were the date originally specified herein for the Lease Expiration Date, and Tenant shall then quit and surrender the Premises to Landlord. Upon a termination of this Lease, Landlord or Landlord's agents or servants may, by any suitable action or proceeding at law, immediately or at any time thereafter re-enter the Premises and remove therefrom Tenant, its agents, employees, servants, licensees, and any subtenants and other persons, and all or any of its or their property therefrom, and repossess and enjoy the Premises, together with all Alterations thereto; but, in any event under this Section 19.2.1, Tenant shall remain liable as hereinafter provided. The words "re-enter" and "re-entry" as used

throughout this Article 19 are not restricted to their technical legal meanings. Landlord shall use commercially reasonable efforts to re-let the Premises following any such termination.

19.2.2 If this Lease is terminated or if Landlord shall re-enter the Premises as aforesaid, or in the event of the termination of this Lease, or of re-entry, by or under any proceeding or action or any provision of law by reason of a default hereunder on the part of Tenant beyond the applicable notice and cure periods, Tenant covenants and agrees forthwith to pay and be liable for, on the days originally fixed herein for the payment thereof, amounts equal to the installments of Base Rent, all Additional Rent and other charges reserved as they would, under the terms of this Lease, become due if this Lease had not been terminated or if Landlord had not entered or re-entered, as aforesaid, and whether the Premises be relet or remain vacant, in whole or in part, or for a period less than the remainder of the Term, or for the whole thereof, but, in the event the Premises be relet by Landlord, Tenant shall be entitled to a credit in the net amount of rent and other charges received by Landlord in reletting, after deduction of all reasonable expenses incurred in reletting the Premises (including, without limitation, remodeling costs, brokerage fees and the like), and in collecting the rent in connection therewith, in the following manner: Amounts

received by Landlord after reletting shall first be applied against such Landlord's reasonable re-letting expenses, until the same are recovered, and until such recovery, Tenant shall pay, as of each day when a payment would fall due under this Lease, the amount which Tenant is obligated to pay under the terms of this Lease (Tenant's liability prior to any such reletting and such recovery shall not in any way be diminished as a result of the fact that such reletting might be for a rent higher than the rent provided for in this Lease); when and if such reletting expenses have been completely recovered, the amounts received from reletting by Landlord as have not previously been applied shall be credited against Tenant's obligations as of each day when a payment would fall due under this Lease, and only the net amount thereof shall be payable by Tenant. Further, Tenant shall not be entitled to any credit of any kind for any period after the date when the term of this Lease is scheduled to expire according to its terms.

19.2.3 Landlord may elect, as an alternative, accelerate the Rent payable under this Lease if this Lease is terminated as a result of Tenant's default beyond the applicable notice and cure periods and have Tenant pay liquidated damages, which election may be made by notice given to Tenant at any time following the effective termination date of this Lease under Section 19.2.1 above, and whether or not Landlord shall have collected any damages as hereinbefore provided in this Article 19, and in lieu of all other such damages beyond the date of such notice. Upon such notice, Tenant shall promptly pay to Landlord, as liquidated damages, in addition to any damages collected or due from Tenant from any period prior to such notice and all expenses which Landlord may have incurred with respect to the collection of such damages, such a sum as at the time of such notice represents the amount of the excess, if any, of (a) the discounted present value, using the Federal Reserve discount rate (or equivalent), of the Base Rent, Additional Rent and other charges which would have been payable by Tenant under this Lease for the remainder of the Term if the Lease terms had been fully complied with by Tenant, over and above (b) the discounted present value, using the Federal Reserve discount rate (or equivalent), of the Base Rent, Additional Rent and other charges that would be received by Landlord if the Premises were re-leased at the time of such notice for the remainder of the Term at the fair market value (including provisions regarding periodic increases in Base Rent if such are applicable) prevailing at the time of such notice. For the purposes of this Article 19, if Landlord elects to require Tenant to pay liquidated damages in accordance with this Section 19.2.3, the total Rent shall be computed by assuming the Landlord's Operating Expenses, Tax Expenses and Utilities Costs to be the same as were payable for the twelve (12) calendar months (or if less than twelve (12) calendar months have been elapsed since the date hereof, the partial year) immediately preceding such termination or re-entry. For the avoidance of doubt, Landlord shall not be entitled to double count for any amounts previously paid by Tenant.

19.2.4 Nothing contained in this Lease shall limit or prejudice the right of Landlord to prove for and obtain in proceedings for bankruptcy or insolvency by reason of the termination of this Lease, an amount equal to the maximum allowed by any statute or rule of law in effect at the time when, and governing the proceeds in which, the damages are to be proved, whether or not the amount be greater, equal to, or less than the amount of the loss or damages referred to above.

19.2.5 In the event of any default beyond the notice and cure periods set forth above, Landlord may, but shall not be obligated to, make any such payment or perform or otherwise cure any such obligation, provision, covenant or condition on Tenant's part to be observed or performed (and may enter the Premises for such purposes). In the event of Tenant's failure to perform any of its obligations or covenants under this Lease, and such failure to perform poses an immediate material risk of injury or harm to persons or damage to or loss of property, then Landlord shall have the right to cure or otherwise perform such covenant or obligation at any time after such failure to perform by Tenant, whether or not any such notice or cure period set forth in Section 19.1 above has expired. Any such actions undertaken by Landlord pursuant to the foregoing provisions of this Section 19.2.5 shall not be deemed a waiver of Landlord's rights and remedies as a result of Tenant's failure to perform and shall not release Tenant from any of its obligations under this Lease.

19.3 Payment by Tenant. Tenant shall pay to Landlord, within thirty (30) days after delivery by Landlord to Tenant of statements therefor: (i) sums equal to expenditures reasonably made and obligations incurred by Landlord in connection with Landlord's performance or cure of any of Tenant's obligations pursuant to the provisions of Section 19.2.5 above; and (ii) sums equal to all expenditures made and obligations incurred by Landlord in collecting or attempting to collect the delinquent Rent or in successfully enforcing any rights of Landlord under this Lease or pursuant to law following a Tenant default, including, without limitation, all legal fees and other amounts so expended. Tenant's obligations under this Section 19.3 shall survive the expiration or sooner termination of the Lease Term.

19.4 Sublessees of Tenant. If Landlord terminates this Lease on account of any default by Tenant, as set forth in this Article 19, Landlord shall have the right to terminate any and all subleases, licenses, concessions or other consensual arrangements for possession entered into by Tenant and affecting the Premises or may, in Landlord's sole discretion, succeed to Tenant's interest in such subleases, licenses, concessions or arrangements. If Landlord elects to succeed to Tenant's interest in any such subleases, licenses, concessions or arrangements, Tenant shall, as of the date of notice by Landlord of such election, have no further right to or interest in the rent or other consideration receivable thereunder.

19.5 Waiver of Default. No waiver by Landlord of any violation or breach by Tenant of any of the terms, provisions and covenants herein contained shall be deemed or construed to constitute a waiver of any other or later violation or breach by Tenant of the same or any other of the terms, provisions, and covenants herein contained. Forbearance by Landlord in enforcement of one or more of the remedies herein provided upon a default by Tenant shall not be deemed or construed to constitute a waiver of such default. The acceptance of any Rent hereunder by Landlord following the occurrence of any default, whether or not known to Landlord, shall not be deemed a waiver of any such default, except only a default in the payment of the Rent so accepted. No waiver by Tenant of any violation or breach by Landlord of any of the terms, provisions and covenants herein contained shall be deemed or construed to constitute a waiver of any other or later violation or breach by Landlord of the same or any other of the terms, provisions, and covenants herein contained.

19.6 Efforts to Relet. For the purposes of this Article 19, Tenant's right to possession shall not be deemed to have been terminated by efforts of Landlord to relet the Premises, by its acts of maintenance or preservation with respect to the Premises, or, to the extent permitted by applicable law, by appointment of a receiver to protect Landlord's interests hereunder. The foregoing enumeration is not exhaustive, but merely illustrative of acts which may be performed by Landlord without terminating Tenant's right to possession.

19.7 Bankruptcy. In the event a debtor, trustee or debtor in possession under the Bankruptcy Code, or another person with similar rights, duties and powers under any other applicable laws, proposes to cure any default under this Lease or to assume or assign this Lease and is obliged to provide adequate assurance to Landlord that (a) a default shall be cured, (b) Landlord shall be compensated for its damages arising from any breach of this Lease and (c) future performance of Tenant's obligations under this Lease shall occur, then such adequate assurances shall include any or all of the following, as designated by Landlord in its sole and absolute discretion:

(i) Those acts specified in the Bankruptcy Code or other applicable laws as included within the meaning of “adequate assurance,” even if this Lease does not concern a shopping center or other facility described in such applicable laws;

(ii) A prompt cash payment to compensate Landlord for any monetary defaults or actual damages arising directly from a breach of this Lease;

(iii) A cash deposit in an amount at least equal to the then-current amount of the Security Deposit; or

(iv) The assumption or assignment of all of Tenant’s interest and obligations under this Lease.

ARTICLE 20

LETTER OF CREDIT/SECURITY DEPOSIT

20.1 Delivery of Letter of Credit. Subject to Section 20.9 below, Tenant shall deliver to Landlord, within five (5) business days of Tenant’s execution of this Lease, an unconditional, clean, irrevocable letter of credit (the “**L-C**”) in the amount set forth in Section 20.3 below (the “**L-C Amount**”), which L-C shall be issued by a money-center, solvent and nationally or regionally recognized bank (a bank which accepts deposits, maintains accounts, which will negotiate a letter of credit, and whose deposits are insured by the FDIC) reasonably acceptable to Landlord (such approved, issuing bank being referred to herein as the “**Bank**”), and which L-C shall be in the form of **Exhibit E** attached hereto (or such other form approved by Landlord). Landlord hereby approves First Republic Bank as the Bank. Tenant shall pay all expenses, points and/or fees incurred by Tenant in obtaining the L-C. The L-C shall (i) be “drawable” at sight, irrevocable and unconditional, (ii) be maintained in effect, whether through renewal or extension, for the period commencing on the date of this Lease and continuing until the date (the “**L-C Expiration Date**”) that is no less than sixty (60) days after the expiration of the Lease Term as the same may be extended or earlier termination, and Tenant shall deliver a new L-C or certificate or amendment of renewal or extension to Landlord at least thirty (30) days prior to the expiration of the L-C then held by Landlord (unless the same automatically renews), without any action whatsoever on the part of Landlord, (iii) be fully assignable by Landlord, its successors and assigns, (iv) permit partial draws and multiple presentations and drawings, and (v) be otherwise subject to the International Standby Practices-ISP 98, International Chamber of Commerce Publication #590. Landlord, or its then managing agent, shall have the right to draw down an amount up to the face amount of the L-C if any of the following shall have occurred or be applicable: (A) a default of Tenant has occurred (beyond any applicable notice, grace, or cure periods) or (B) the Lease has been rejected, or is deemed rejected, under Section 365 of the U.S. Bankruptcy Code, following the filing of a voluntary petition by Tenant under the Bankruptcy Code, or the filing of an involuntary petition against Tenant under the Bankruptcy Code, or (C) the Bank has notified Landlord that the L-C will not be renewed or extended through the L-C Expiration Date (each of the foregoing being an “**L-C Draw Event**”). All amounts drawn will be held as a cash security deposit under Section 20.9. The L-C shall be honored by the Bank regardless of whether Tenant disputes Landlord’s right to draw upon the L-C. In addition, in the event the Bank is placed into receivership or conservatorship by the Federal Deposit Insurance Corporation or any successor or similar entity, then, effective as of the date such receivership or conservatorship occurs, said L-C shall be deemed to fail to meet the requirements of this Article 21, and, within ten (10) business days following Landlord’s notice to Tenant of such receivership or conservatorship (the “**L-C FDIC Replacement Notice**”), Tenant shall replace such L-C with a substitute letter of credit from a different issuer otherwise acceptable to Landlord in its reasonable discretion and that complies in all respects with the requirements of this Article 20 or deposit cash with Landlord pursuant to Section 20.9. If Tenant fails to replace such L-C with such conforming, substitute letter of credit pursuant to the terms and conditions of this Section 20.1, then, notwithstanding anything in this Lease to the contrary, Landlord shall have the right to draw the full amount of the L-C and hold it as a cash security deposit per Section 20.9. In the event of an assignment by Tenant of its interest in the Lease (and irrespective of whether Landlord’s consent is required for such assignment), the acceptance of any replacement or substitute letter of credit by Landlord from the assignee shall be subject to Landlord’s prior written approval, in Landlord’s sole and absolute discretion provided if Landlord does not approve, then the security may be posted in cash as set forth in Section 20.9, following which Landlord will promptly return the L-C to Tenant.

20.2 Application of L-C. Tenant hereby acknowledges and agrees that Landlord is entering into this Lease in material reliance upon the ability of Landlord to draw upon the L-C upon the occurrence of any L-C Draw Event. In the event of any L-C Draw Event under Section 20.1(A) or (B) above, Landlord may, but without obligation to do so, and without notice to Tenant, draw upon the L-C, in part or in whole, to cure any such L-C Draw Event and/or to compensate Landlord for any and all damages of any kind or nature sustained or which Landlord reasonably estimates that it will sustain resulting from Tenant's breach or default of the Lease or other L-C Draw Event and/or to compensate Landlord for any and all damages arising out of, or incurred in connection with, the termination of this Lease. The use, application or retention of the L-C, or any portion thereof, by Landlord shall not prevent Landlord from exercising any other right or remedy provided by this Lease or by any applicable law, it being intended that Landlord shall not first be required to proceed against the L-C, and such L-C shall not operate as a limitation on any recovery

to which Landlord may otherwise be entitled. Tenant agrees not to interfere in any way with payment to Landlord of the proceeds of the L-C, either prior to or following a "draw" by Landlord of any portion of the L-C, regardless of whether any dispute exists between Tenant and Landlord as to Landlord's right to draw upon the L-C. No condition or term of this Lease shall be deemed to render the L-C conditional to justify the issuer of the L-C in failing to honor a drawing upon such L-C in a timely manner. Tenant agrees and acknowledges that (i) the L-C constitutes a separate and independent contract between Landlord and the Bank, (ii) Tenant is not a third party beneficiary of such contract, (iii) Tenant has no property interest whatsoever in the L-C or the proceeds thereof, and (iv) in the event Tenant becomes a debtor under any chapter of the Bankruptcy Code, Tenant is placed into receivership or conservatorship, and/or there is an event of a receivership, conservatorship or a bankruptcy filing by, or on behalf of, Tenant, neither Tenant, any trustee, nor Tenant's bankruptcy estate shall have any right to restrict or limit Landlord's claim and/or rights to the L-C and/or the proceeds thereof by application of Section 502(b)(6) of the U. S. Bankruptcy Code or otherwise.

20.3 L-C Amount; Maintenance of L-C by Tenant; Liquidated Damages.

20.3.1 L-C Amount. The initial L-C Amount shall be equal to the amount set forth in Section 10 of the Summary.

20.3.2 Reduction of L-C Amount. To the extent that Tenant is not in default under this Lease (beyond the applicable notice and cure period set forth in this Lease) (the "**LC Reduction Contingency**"), the L-C Amount shall be reduced as follows:

<u>Date of Reduction</u>	<u>L-C Amount</u>
24th Month Anniversary of Lease Commencement Date	\$1,917,759.40

Notwithstanding anything to the contrary set forth in this Section 20.3.2, in no event shall the L-C Amount as set forth above decrease during any period in which Tenant is in default under this Lease and/or in the event the LC Reduction Contingency is not satisfied, but such decrease shall take place retroactively after such default is cured and/or after the LC Reduction Contingency is satisfied, provided that no such decrease shall thereafter take effect in the event this Lease is terminated early due to such default by Tenant.

20.3.3 In General. If, as a result of any drawing by Landlord of all or any portion of the L-C, the amount of the L-C shall be less than the L-C Amount, Tenant shall, within five (5) days thereafter, provide Landlord with additional letter(s) of credit (or cash security to be held pursuant to Section 20.9) in an amount equal to the deficiency, and any such additional letter(s) of credit shall comply with all of the provisions of this Article 20, and if Tenant fails to comply with the foregoing, the same shall be subject to the terms of Section 20.3.3 below. Tenant further covenants and warrants that it will neither assign nor encumber the L-C or any part thereof and that neither Landlord nor its successors or assigns will be bound by any such assignment, encumbrance, attempted assignment or attempted encumbrance. Without limiting the generality of the foregoing, if the L-C expires earlier than the L-C Expiration Date, Landlord will accept a renewal thereof (such renewal letter of credit to be in effect and delivered to Landlord, as applicable, not later than ten (10) business days prior to the expiration of the L-C), which shall be irrevocable and automatically renewable as above provided through the L-C Expiration Date upon the same terms as

the expiring L-C or such other terms as may be acceptable to Landlord in its sole discretion. As an express condition to Tenant's right to extend the Term of this Lease pursuant to the Extension Option Rider, Tenant shall, not later than thirty (30) days prior to the commencement of the Option Term, deliver to Landlord a new L-C or certificate or amendment of renewal or extension evidencing the L-C Expiration Date as thirty (30) days after the expiration of the Option Term unless the L-C automatically renews (the "**Extension Option L-C Condition**"). However, if the L-C is not timely renewed, or if Tenant fails to maintain the L-C in the amount and in accordance with the terms set forth in this Article 20, Landlord shall have the right to present the L-C to the Bank in accordance with the terms of this Article 20, and the proceeds of the L-C shall be held as a cash security deposit under Security 20.9 and may be applied by Landlord against any Rent payable by Tenant under this Lease that is not paid when due and/or to pay for all losses and damages that Landlord has suffered or that Landlord reasonably estimates that it will suffer as a result of any breach or default by Tenant under this Lease which continues beyond applicable notice and cure periods. In the event Landlord elects to exercise its rights under the foregoing item (x), (I) any unused proceeds shall be held as a cash security deposit under Section 20.9 and need not be segregated from Landlord's other assets, and (II) Landlord agrees to pay to Tenant within thirty (30) days after the L-C Expiration Date the amount of any proceeds of the L-C received by Landlord and not applied against any Rent payable by Tenant under this Lease that was not paid when due or used to pay for any losses and/or damages suffered by Landlord (or reasonably estimated by Landlord that it will suffer) as a result of any breach or default by Tenant under this Lease; provided, however, that if prior to the L-C Expiration Date a voluntary petition is filed by Tenant, or an involuntary petition is filed against Tenant by any of Tenant's creditors, under the Bankruptcy Code, then Landlord shall not be obligated to make such payment in the amount of the unused L-C proceeds until either all preference issues relating to payments under this Lease have been resolved in such bankruptcy or reorganization case or such bankruptcy or reorganization case has been dismissed.

20.3.4 Intentionally Omitted.

20.4 Transfer and Encumbrance. The L-C shall also provide that Landlord may, at any time and without notice to Tenant and without first obtaining Tenant's consent thereto, transfer (one or more times) all or any portion of its interest in and to the L-C to another party, person or entity, that purchases the Project and becomes the Landlord under the Lease. In the event of a transfer of Landlord's interest in under this Lease, Landlord shall transfer the L-C, in whole or in part, to the transferee and thereupon Landlord shall, without any further agreement between the parties, be released by Tenant from all liability therefor, and it is agreed that the provisions hereof shall apply to every transfer or assignment of the whole of said L-C to a new landlord. In connection with any such transfer of the L-C by Landlord, Tenant shall, at Tenant's sole cost and expense, execute and submit to the Bank such applications, documents and instruments as may be necessary to effectuate such transfer and, Tenant shall be responsible for paying the Bank's transfer and processing fees in connection therewith; provided that, Landlord shall have the right (in its sole discretion), but not the obligation, to pay such fees on behalf of Tenant, in which case Tenant shall reimburse Landlord within ten (10) days after Tenant's receipt of an invoice from Landlord therefor.

20.5 L-C Not a Security Deposit. Tenant hereby irrevocably waives and relinquishes the provisions of law, now or hereafter in effect, which (x) establish the time frame by which a landlord must refund a security deposit under a lease, and/or (y) provide that a landlord may claim from a security deposit only those sums reasonably necessary to remedy defaults in the payment of rent, to repair damage caused by a tenant or to clean the premises, it being agreed that Landlord may, in addition, claim those sums specified in this Article 20 and/or those sums reasonably necessary to (a) compensate Landlord for any loss or damage caused by Tenant's breach of this Lease to which Landlord is entitled under the Lease, including any damages Landlord suffers following termination of this Lease, and/or (b) compensate Landlord for any and all damages arising out of, or incurred in connection with, the termination of this Lease to which Landlord is entitled under the Lease.

20.6 Non-Interference by Tenant. Tenant agrees not to interfere in any way with any payment to Landlord of the proceeds of the L-C, either prior to or following a "draw" by Landlord of all or any portion of the L-C, regardless of whether any dispute exists between Tenant and Landlord as to Landlord's right to draw down all or any portion of the L-C. No condition or term of this Lease shall be deemed to render the L-C conditional and thereby afford the Bank a justification for failing to honor a drawing upon such L-C in a timely manner. Tenant shall not request or instruct the Bank of any L-C to refrain from paying sight draft(s) drawn under such L-C.

20.7 Waiver of Certain Relief. Tenant unconditionally and irrevocably waives (and as an independent covenant hereunder, covenants not to assert) any right to claim or obtain any of the following relief in connection with the L-C:

20.7.1 A temporary restraining order, temporary injunction, permanent injunction, or other order that would prevent, restrain or restrict the presentment to Landlord of sight drafts drawn under any L-C or the Bank's honoring or payment of sight draft(s) to Landlord; or

20.7.2 Any attachment, garnishment, or levy in any manner upon either the proceeds of any L-C or the obligations of the Bank (either before or after the presentment to the Bank of sight drafts drawn under such L-C) based on any theory whatever.

20.8 Remedy for Improper Drafts. Tenant's sole remedy in connection with the improper presentment or payment of sight drafts drawn under any L-C shall be the right to obtain from Landlord a refund of the amount of any sight draft(s) that were improperly presented or the proceeds of which were misapplied, together with interest at the Interest Rate and reasonable actual out-of-pocket attorneys' fees, provided that at the time of such refund, Tenant increases the amount of such L-C to the amount (if any) then required under the applicable provisions of this Lease. Tenant acknowledges that the presentment of sight drafts drawn under any L-C, or the Bank's payment of sight drafts drawn under such L-C, could not under any circumstances cause Tenant injury that could not be remedied by an award of money damages, and that the recovery of money damages would be an adequate remedy therefor. In the event Tenant shall be entitled to a refund as aforesaid and Landlord shall fail to make such payment within ten (10) business days after demand, Tenant shall have the right to deduct the amount thereof together with interest thereon at the Interest Rate from the next installment(s) of Base Rent.

20.9 Security Deposit. If Tenant does not elect to deposit the L-C, then Tenant shall, concurrent with Tenant's execution of this Lease, deposit with Landlord a security deposit (the "**Security Deposit**") in the amount set forth in Section 10 of the Summary. The Security Deposit shall be held by Landlord as security for the faithful performance by Tenant of all the terms, covenants, and conditions of this Lease to be kept and performed by Tenant during the Lease Term. If Tenant defaults (beyond any applicable notice and cure periods) with respect to any provisions of this Lease, including, but not limited to, the provisions relating to the payment of Rent, Landlord may, but shall not be required to, use, apply or retain all or any part of the Security Deposit for the payment of any Rent or any other sum in default, or to compensate Landlord for any other actual loss or damage caused by Tenant's default. If any portion of the Security Deposit is so used or applied, Tenant shall, within ten (10) business days after written demand therefor, deposit cash with Landlord in an amount sufficient to restore the Security Deposit to its original amount, and Tenant's failure to do so shall be a default under this Lease. The Security Deposit, or any balance thereof, shall be returned to Tenant within sixty (60) days following the expiration of the Lease Term; provided Tenant has cured any outstanding defaults or, if not, Landlord shall return the Security Deposit less amounts required to cure outstanding defaults. Tenant shall not be entitled to any interest on the Security Deposit. Tenant hereby waives all provisions of law, now or hereafter in force, which provide that Landlord may claim from a security deposit only those sums reasonably necessary to remedy defaults in the payment of rent, to repair damage caused by Tenant or to clean the Premises, it being agreed that Landlord may, in addition, claim those sums reasonably necessary to compensate Landlord for any other loss or damage to which Landlord is entitled to under the Lease, foreseeable or unforeseeable, caused by the act or omission of Tenant or any officer, employee, agent or invitee of Tenant to the extent permitted under the Lease. In the event of bankruptcy or other debtor-creditor proceedings against Tenant, the Security Deposit shall be deemed to be applied first to the payment of Rent and other charges due Landlord for all periods prior to the filing of such proceedings. Notwithstanding anything to the contrary contained in this Article 20 or Section 10 of the Summary, in the event that Tenant, at the expiration of the twenty-fourth (24th) month of the initial Lease Term ("**Reduction Date**"), is not in default of any of its obligations under this Lease (beyond the expiration of all applicable notice and cure periods) and Landlord has not made any application of the Security Deposit prior to the Reduction Date, Landlord shall reduce the amount of the Security Deposit to an amount equal to One Million Five Hundred Thirty-Four Thousand Two Hundred Seven and 50/100 Dollars (\$1,534,207.50) and Landlord shall, within ten (10) days after the Reduction Date, refund to Tenant an amount equal to Seven Hundred Sixty-Seven Thousand One Hundred Three and 70/100 Dollars (\$767,103.70).

20.10 Conversion of L-C/Security Deposit. Tenant shall have the right to convert the L-C to a Security Deposit and the Security Deposit to an L-C up to two (2) times in the aggregate during the Lease Term. In the event Tenant initially provides an L-C pursuant to this Article 20, then the providing of such L-C shall not apply to the two (2) time limit. Tenant agrees to pay Landlord's reasonable attorney's fees in connection with any such conversion(s).

ARTICLE 21

COMPLIANCE WITH LAW

Tenant shall not do anything or suffer anything to be done in or about the Premises which will in any way violate with any applicable law, statute, ordinance or other governmental rule, regulation or requirement now in force or which may hereafter be enacted or promulgated. At its sole cost and expense, Tenant shall promptly comply with all such governmental measures, other than the making of structural changes, changes to the Building's systems or adding new Building systems, such as life safety system, or changes or additions on account of such governmental measures in effect on the Lease Commencement Date (collectively the "**Excluded Changes**"); provided, however, to the extent such Excluded Changes are required due to or triggered by Tenant's improvements or alterations to and/or manner of Tenant's specific use of the Premises (as opposed to the Permitted Uses generally), Landlord shall perform such work, at Tenant's cost (which shall be paid by Tenant to Landlord within thirty (30) days after Tenant's receipt of invoice therefor from Landlord). Landlord shall otherwise perform all Excluded Changes at Landlord's sole cost (and not as an Operating Expense to the extent changes or additions are required to comply with governmental measures in effect on the Lease Commencement Date). The non-applicable judgment of any court of competent jurisdiction or the admission of Tenant in any judicial action, regardless of whether Landlord is a party thereto, that Tenant has violated any of said governmental measures, shall be conclusive of that fact as between Landlord and Tenant.

ARTICLE 22

ENTRY BY LANDLORD

Landlord reserves the right at all reasonable times and upon reasonable advance written notice (at least 24 hours), to Tenant to enter the Premises to: (i) inspect them; (ii) show the Premises to prospective purchasers, mortgagees, the ground lessors, or, during the last 9 months of the Lease Term, prospective tenants; (iii) to post notices of nonresponsibility; or (iv) provided the same does not have an adverse impact on Tenant's use to enjoyment of the Premises, alter, improve or repair the Premises or the Building if necessary to comply with current building codes or other applicable laws, or for structural alterations, repairs or improvements to the Building. Notwithstanding anything to the contrary contained in this Article 22, Landlord may enter the Premises at any time, without notice to Tenant (provided with respect to emergency situations, notice of such entry shall be made promptly thereafter), in emergency situations and/or to perform janitorial required of Landlord pursuant to this Lease. Any such entries in compliance with this Section shall be without the abatement of Rent and shall include the right to take such reasonable steps as required to accomplish the stated purposes. Tenant hereby waives any claims for damages or for any injuries or inconvenience to or interference with Tenant's business, any loss of occupancy or quiet enjoyment of the Premises, and any other loss occasioned thereby, except to the extent caused by the negligence or willful misconduct of Landlord or any Landlord Party (provided, the foregoing proviso shall not apply to loss of profits or other consequential damages). For each of the above purposes, Landlord shall at all times have a key with which to unlock all the doors in the Premises, excluding Tenant's vaults, safes and special security areas designated in advance by Tenant. In an emergency, Landlord shall have the right to enter without notice and use any means that Landlord may deem proper to open the doors in and to the Premises. Any entry into the Premises in the manner hereinbefore described shall not be deemed to be a forcible or unlawful entry into, or a detainer of, the Premises, or an actual or constructive eviction of Tenant from any portion of the Premises. In connection with such accessing of the Premises, Landlord will comply with Tenant's reasonable written security measures so long as such compliance does not materially impede or delay Landlord's access to the Premises. Landlord shall in all events use commercially reasonable efforts to minimize any interference with Tenant's use and enjoyment of, and access to, the Premises in connection with any exercise of rights by Landlord under this Section 22.

ARTICLE 23

PARKING

Throughout the Lease Term, Tenant shall have the exclusive right to use, free of charges, the number of parking spaces set forth in Section 12 of the Summary, which parking spaces constitute the entirety of the parking under the Building and the adjacent surface parking, being all of the parking in the Project. Tenant shall comply with the Parking Rules and Regulations which are in effect on the date hereof, as set forth in the attached **Exhibit D** and all reasonable modifications and additions thereto which are prescribed from time to time for the orderly operation and use of the Parking Areas by Landlord, and/or Landlord's Parking Operator (as defined below); provided that such modifications or alterations do not effect Tenant's use of or access to the Parking Areas. Landlord specifically reserve the right to change the size, configuration, design, layout, of the Parking Areas, and Tenant acknowledges and agrees that Landlord may, without incurring any liability to Tenant and without any abatement of Rent under this Lease, from time to time, temporarily close-off or restrict access to the Parking Areas, so long as Tenant retains access to the number of parking spaces set forth in Section 12 of the Summary. Landlord may delegate its responsibilities hereunder to a parking operator (the "**Parking Operator**") in which case the Parking Operator shall have all the rights of control attributed hereby to Landlord. Any parking tax or other charges imposed by governmental authorities in connection with the use of such parking shall be paid directly by Tenant or the parking users, or, if directly imposed against Landlord, Tenant shall reimburse Landlord for all such taxes and/or charges within thirty (30) days after Landlord's demand therefor. The parking rights provided to Tenant pursuant to this Article 23 are provided solely for use by Tenant's own personnel visitors and invitees and such rights may not be transferred, assigned, subleased or otherwise alienated by Tenant without Landlord's prior approval, except in connection with an assignment of this Lease or sublease of the Premises made in accordance with Article 14 above.

ARTICLE 24

MISCELLANEOUS PROVISIONS

24.1 **Terms; Captions.** The necessary grammatical changes required to make the provisions hereof apply either to corporations or partnerships or individuals, men or women, as the case may require, shall in all cases be assumed as though in each case fully expressed. The captions of Articles and Sections are for convenience only and shall not be deemed to limit, construe, affect or alter the meaning of such Articles and Sections.

24.2 **Binding Effect.** Each of the provisions of this Lease shall extend to and shall, as the case may require, bind or inure to the benefit not only of Landlord and of Tenant, but also of their respective successors or assigns, provided this clause shall not permit any assignment by Tenant contrary to the provisions of Article 14 above.

24.3 **No Waiver.** No waiver of any provision of this Lease shall be implied by any failure of a party to enforce any remedy on account of the violation of such provision, even if such violation shall continue or be repeated subsequently, any waiver by a party of any provision of this Lease may only be in writing, and no express waiver shall affect any provision other than the one specified in such waiver and that one only for the time and in the manner specifically stated. No receipt of monies by Landlord from Tenant after the termination of this Lease shall in any way alter the length of the Lease Term or of Tenant's right of possession hereunder or after the giving of any notice shall reinstate, continue or extend the Lease Term or affect any notice given Tenant prior to the receipt of such monies, it being agreed that after the service of notice or the commencement of a suit or after final judgment for possession of the Premises, Landlord may receive and collect any Rent due, and the payment of said Rent shall not waive or affect said notice, suit or judgment.

24.4 **Modification of Lease.** If Landlord or any such current or prospective mortgagee or ground lessor require execution of a short form of Lease for recording, containing, among other customary provisions, the names of the parties, a description of the Premises and the Lease Term, Tenant shall execute such short form of Lease and to deliver the same to Landlord within fifteen (15) days following the request therefor.

24.5 Transfer of Landlord's Interest. Landlord has the right to transfer all or any portion of its interest in the Project, the Building and/or in this Lease, and upon any such transfer, Landlord shall automatically be released from all liability under this Lease thereafter accruing and Tenant shall look solely to such transferee for the performance of Landlord's obligations hereunder after the date of transfer so long as the transferee has assumed all of Landlord's obligations hereunder. The liability of any transferee of Landlord shall be limited to the interest of such transferee in the Project and such transferee shall be without personal liability under this Lease beyond its interest in the Project, and Tenant hereby expressly waives and releases such personal liability on behalf of itself and all persons claiming by, through or under Tenant. Landlord may also assign its interest in this Lease to a mortgage lender as additional security but such assignment shall not release Landlord from its obligations hereunder and Tenant shall continue to look to Landlord for the performance of its obligations hereunder. Neither Landlord (beyond its interest in the Project) nor any of its affiliates, nor any of their respective partners, shareholders, directors, officers, employees, members or agents shall be personally liable for Landlord's obligations or any deficiency under this Lease, and service of process shall not be made against any shareholder, member, director, officer, employee or agent of Landlord or any of Landlord's affiliates except as appropriate to serve Landlord. No partner, shareholder, director, officer, employee, member or agent of Landlord or any of its affiliates shall be sued for liabilities of Landlord or named as a party in any suit or action for liabilities of Landlord, and service of process shall not be made against any partner or member of Landlord except as may be necessary to serve or secure jurisdiction of the partnership, joint venture or limited liability company, as applicable. No judgment shall be taken or writ of execution levied against any partner, shareholder, director, officer, employee, member or agent of Landlord or any of its affiliates. Landlord's interest in the Project shall include the proceeds therefrom.

24.6 Prohibition Against Recording. Except as provided herein, this Lease shall not be recorded by Tenant or by anyone acting through, under or on behalf of Tenant, and the recording thereof in violation of this provision shall make this Lease null and void at Landlord's election. Simultaneously with the execution of this Lease, Landlord and Tenant shall enter into a recordable notice of lease in the form of **Exhibit G**, which Landlord, at Landlord's expense, shall then cause to be recorded in the applicable public record(s) within five (5) business days after the execution of this Lease.

24.7 Landlord's Title; Air Rights. Landlord's title is and always shall be paramount to the title of Tenant. Nothing herein contained shall empower Tenant to do any act which can, shall or may encumber the title of Landlord, other than the granting of the leasehold and other rights set forth herein. No rights to any view or to light or air over any property, whether belonging to Landlord or any other person, are granted to Tenant by this Lease.

24.8 Tenant's Signs.

24.8.1 General. Tenant shall be entitled, at Tenant's sole cost and expense and without Landlord's further approval, to display signage in the interior of the Premises. Upon the expiration or earlier termination of this Lease, Tenant shall be responsible, at its sole cost and expense, for the removal of such signage and the repair of all damage to the Building caused by such removal.

24.8.2 Exterior Signage. Subject to this Section 24.8.2, Tenant shall be entitled to install, at its sole cost and expense, exclusive signage on the Building and exterior of the Project ("**Signage**"). The graphics, materials, size, color, design, lettering, lighting (if any), specifications and exact location of the Signage (collectively, the "**Signage Specifications**") shall be subject to the prior written approval of Landlord, which approval shall not be unreasonably withheld, conditioned or delayed; provided that Tenant shall be entitled to a sign including its name, logo and trade dress in the maximize size permitted by applicable zoning codes. In addition, the Signage and all Signage Specifications therefore shall be subject to Tenant's receipt of all required governmental permits and approvals, shall be subject to all applicable governmental laws and ordinances, and all covenants, conditions and restrictions affecting the Project. Tenant hereby acknowledges that, notwithstanding Landlord's approval of the Signage and/or the Signage Specifications therefor, Landlord has made no representations or warranty to Tenant with respect to the probability of obtaining such approvals and permits. In the event Tenant does not receive the necessary permits and approvals for the Signage, Tenant's and Landlord's rights and obligations under the remaining provisions of this Lease shall not be affected. The cost of installation of the Signage, as well as all costs of design and construction of such Signage and all other costs associated with such Signage, including, without

limitation, permits, maintenance and repair, shall be the sole responsibility of Tenant. Notwithstanding anything to the contrary contained herein, in the event that at any time during the Term of this Lease (or any Option Term, if applicable), Tenant subleases more than thirty five percent (35%) of the Premises then Tenant's right to the Signage shall thereupon terminate and Tenant shall remove such Signage as provided in this Section 24.8.2 below. The rights to the Signage shall be personal to the Original Tenant and its Affiliate Assignees and may not be transferred except in connection with a Transfer of this Lease. Should the Signage require maintenance or repairs as determined in Landlord's reasonable judgment, Landlord shall have the right to provide written notice thereof to Tenant and Tenant shall cause such repairs and/or maintenance to be performed within thirty (30) days after receipt of such notice from Landlord at Tenant's sole cost and expense. Should Tenant fail to perform such maintenance and repairs within the period described in the immediately preceding sentence, Landlord shall have the right to cause such work to be performed and to charge Tenant, as Additional Rent, for the cost of such work. Upon the expiration or earlier termination of this Lease (or the termination of Tenant's Signage right as described above), Tenant shall, at Tenant's sole cost and expense, cause the Signage to be removed from the exterior of the Project and shall cause the exterior of the Project to be restored to the condition existing prior to the placement of such Signage. If Tenant fails to remove such Signage and to restore the exterior of the Project as provided in the immediately preceding sentence within thirty (30) days following the expiration or earlier termination of this Lease (or the termination of Tenant's Signage as provided above), then Landlord may perform such work, and all costs and expenses incurred by Landlord in so performing such work shall be reimbursed by Tenant to Landlord within ten (10) business days after Tenant's receipt of invoice therefor. The immediately preceding sentence shall survive the expiration or earlier termination of this Lease. Any signs, notices, logos, pictures, names or advertisements which are installed and that have not been individually approved by Landlord may be removed without notice by Landlord at the sole expense of Tenant. Except as provided in this Section 24.8.2 above, Tenant may not install any signs on the exterior of the Project. Any signs, window coverings, or blinds (unless the same are located behind the Landlord approved window coverings for the Project), or other items visible from the exterior of the Premises or Project are subject to the prior approval of Landlord, in its sole discretion.

24.9 Relationship of Parties. Nothing contained in this Lease shall be deemed or construed by the parties hereto or by any third party to create the relationship of principal and agent, partnership, joint venturer or any association between Landlord and Tenant, it being expressly understood and agreed that neither the method of computation of Rent nor any act of the parties hereto shall be deemed to create any relationship between Landlord and Tenant other than the relationship of landlord and tenant.

24.10 Application of Payments. Landlord shall have the right to apply payments received from Tenant pursuant to this Lease, regardless of Tenant's designation of such payments, to satisfy any obligations of Tenant hereunder, in such order and amounts as Landlord, in its sole discretion, may elect.

24.11 Time of Essence. Time is of the essence of this Lease and each of its provisions.

24.12 Partial Invalidity. If any term, provision or condition contained in this Lease shall, to any extent, be invalid or unenforceable, the remainder of this Lease, or the application of such term, provision or condition to persons or circumstances other than those with respect to which it is invalid or unenforceable, shall not be affected thereby, and each and every other term, provision and condition of this Lease shall be valid and enforceable to the fullest extent possible permitted by law.

24.13 No Warranty. In executing and delivering this Lease, Tenant has not relied on any representation, including, but not limited to, any representation whatsoever as to the amount of any item comprising Additional Rent or the amount of the Additional Rent in the aggregate, or any warranty or any statement of Landlord which is not set forth herein or in one or more of the Exhibits attached hereto.

24.14 Landlord Exculpation. Notwithstanding anything in this Lease to the contrary, and notwithstanding any applicable law to the contrary, the liability of Landlord under this Lease (including any successor landlord) and any recourse by Tenant against Landlord shall be limited solely and exclusively to the ownership interest of Landlord in the Project (including any proceeds thereof).

24.15 Entire Agreement. There are no oral agreements between the parties hereto affecting this Lease and this Lease supersedes and cancels any and all previous negotiations, arrangements, brochures, agreements and understandings, if any, between the parties hereto or displayed by Landlord to Tenant with respect to the subject matter thereof, and none thereof shall be used to interpret or construe this Lease. This Lease and any side letter or separate agreement executed by Landlord and Tenant in connection with this Lease and dated of even date herewith contain all of the terms, covenants, conditions, warranties and agreements of the parties relating in any manner to the rental, use and occupancy of the Premises, shall be considered to be the only agreement between the parties hereto and their representatives and agents, and none of the terms, covenants, conditions or provisions of this Lease can be modified, deleted or added to except in writing signed by the parties hereto. All negotiations and oral agreements acceptable to both parties have been merged into and are included herein. There are no other representations or warranties between the parties, and all reliance with respect to representations is based totally upon the representations and agreements contained in this Lease.

24.16 Intentionally Omitted.

24.17 Force Majeure. Any delay due to strikes, lockouts, labor disputes, pandemic or health emergency, acts of God, inability to obtain services, labor, or materials or reasonable substitutes therefor, governmental actions, civil commotions, fire or other casualty, and other causes beyond the reasonable control of the party obligated to perform, except with respect to the obligations imposed with regard to Rent and other charges to be paid by Tenant or Landlord pursuant to this Lease (collectively, the "**Force Majeure**"), notwithstanding anything to the contrary contained in this Lease, shall extend the performance of such party for a period equal to any such delay and, therefore, if this Lease specifies a time period for performance of an obligation of either party, that time period shall be extended by the period of any delay in such party's performance caused by a Force Majeure.

24.18 Waiver of Redemption by Tenant. Tenant hereby waives for Tenant and for all those claiming under Tenant all right now or hereafter existing to redeem by order or judgment of any court or by any legal process or writ, Tenant's right of occupancy of the Premises after any termination of this Lease.

24.19 Notices. All notices, demands, statements or communications (collectively, "**Notices**") given or required to be given by either party to the other hereunder shall be in writing, shall be (A) sent by United States certified or registered mail, postage prepaid, return receipt requested, (B) delivered by a nationally recognized overnight courier, or (C) delivered personally (i) to Tenant at the appropriate address set forth in Section 5 of the Summary, or to such other place as Tenant may from time to time designate in a Notice to Landlord; or (ii) to Landlord at the addresses set forth in Section 3 of the Summary, or to such other firm or to such other place as Landlord may from time to time designate in a Notice to Tenant. Any Notice will be deemed given five (5) business days following the date it is mailed if Notice is sent pursuant to clause (A), the date overnight courier delivery is made or upon the date personal delivery is made or rejected. If Tenant is notified in writing of the identity and address of Landlord's mortgagee or ground lessor, Tenant shall give to such mortgagee or ground lessor a copy of any written notice of any default by Landlord under the terms of this Lease which Tenant serves on Landlord, which notice to the mortgagee will be by any of the methods described above, and such mortgagee or ground lessor shall be given a reasonable opportunity to cure such default (not to exceed 30 days from receipt of Tenant's notice) prior to Tenant's exercising any remedy available to Tenant.

24.20 Joint and Several. If there is more than one person or entity executing this Lease as Tenant, the obligations imposed upon such persons and entities under this Lease are and shall be joint and several.

24.21 Representations. Tenant warrants and represents that (a) Tenant is duly incorporated or otherwise established or formed and validly existing under the laws of its state of incorporation, establishment or formation, (b) Tenant has and is duly qualified to do business in the state in which the Project is located, (c) Tenant has full corporate, partnership, trust, association or other appropriate power and authority to enter into this Lease and to perform all Tenant's obligations hereunder, (d) each person (and all of the persons if more than one signs) signing this Lease on behalf of Tenant is duly and validly authorized to do so and (e) neither (i) the execution, delivery or performance of this Lease nor (ii) the consummation of the transactions contemplated hereby will violate or conflict with any provision of documents or instruments under which Tenant is constituted or to which Tenant is a party. In

addition, Tenant guarantees, warrants and represents that none of (x) it, (y) its affiliates or partners nor (z) to the best of its knowledge, its members, shareholders or other equity owners or any of their respective employees, officers, directors, representatives or agents is a person or entity with whom U.S. persons or entities are restricted from doing business under regulations of the Office of Foreign Asset Control (“**OFAC**”) of the Department of the Treasury (including those named on OFAC’s Specially Designated and Blocked Persons List) or under any statute, executive order (including the September 24, 2001, Executive Order Blocking Property and Prohibiting Transactions with Persons Who Commit, Threaten to Commit, or Support Terrorism) or other similar governmental action.

Landlord warrants and represents to Tenant that (a) Landlord is duly incorporated or otherwise established or formed and validly existing under the laws of its state of incorporation, establishment or formation, (b) Landlord has and is duly qualified to do business in the state in which the Project is located, (c) Landlord has full corporate, partnership, trust, association or other appropriate power and authority to enter into this Lease and to perform all Landlord’s obligations hereunder, (d) each person (and all of the persons if more than one signs) signing this Lease on behalf of Landlord is duly and validly authorized to do so and (e) neither (i) the execution, delivery or performance of this Lease nor (ii) the consummation of the transactions contemplated hereby will violate or conflict with any provision of documents or instruments under which Landlord is constituted or to which Landlord a party. In addition, Landlord guarantees, warrants and represents to Tenant that none of (x) it, (y) its affiliates or partners nor (z) to the best of its knowledge, its members, shareholders or other equity owners or any of their respective employees, officers, directors, representatives or agents is a person or entity with whom U.S. persons or entities are restricted from doing business under regulations of OFAC of the Department of the Treasury (including those named on OFAC’s Specially Designated and Blocked Persons List) or under any statute, executive order (including the September 24, 2001, Executive Order Blocking Property and Prohibiting Transactions with Persons Who Commit, Threaten to Commit, or Support Terrorism) or other similar governmental action.

24.22 Jury Trial; Attorneys’ Fees. IF EITHER PARTY COMMENCES LITIGATION AGAINST THE OTHER FOR THE SPECIFIC PERFORMANCE OF THIS LEASE, FOR DAMAGES FOR THE BREACH HEREOF OR OTHERWISE FOR ENFORCEMENT OF ANY REMEDY HEREUNDER, THE PARTIES HERETO AGREE TO AND HEREBY DO WAIVE ANY RIGHT TO A TRIAL BY JURY. In the event of any such commencement of litigation, the prevailing party shall be entitled to recover from the other party such costs and reasonable attorneys’ fees as may have been incurred, including any and all costs incurred in enforcing, perfecting and executing such judgment.

24.23 Governing Law. This Lease shall be construed and enforced in accordance with the laws of the state in which the Project is located, without regard to its principles of conflicts of law.

24.24 Submission of Lease. Submission of this instrument for examination or signature by Tenant does not constitute a reservation of or an option for lease, and it is not effective as a lease or otherwise until execution and delivery by both Landlord and Tenant.

24.25 Brokers. Landlord and Tenant each hereby represents and warrants to the other party that it (i) has had no dealings with any real estate broker or agent in connection with the negotiation of this Lease, excepting only the real estate brokers or agents specified in Section 11 of the Summary (collectively, the “**Brokers**”), and (ii) knows of no other real estate broker or agent who is entitled to a commission in connection with this Lease. Each party agrees to indemnify and defend the other party against and hold the other party harmless from any and all claims, demands, losses, liabilities, lawsuits, judgments, and costs and expenses (including without limitation reasonable attorneys’ fees) with respect to any leasing commission or equivalent compensation alleged to be owing on account of the indemnifying party’s dealings with any real estate broker or agent in connection with this Lease other than the Brokers. Landlord shall be responsible for the payment of any commissions owed to the Brokers pursuant to a separate written agreement.

24.26 No Offset; Independent Covenants; Waiver. Rent shall be paid without notice or demand, and without setoff, counterclaim, defense, abatement, suspension, deferment, reduction or deduction, except as expressly provided herein. TENANT WAIVES ALL RIGHTS (I) TO ANY ABATEMENT, SUSPENSION, DEFERMENT, REDUCTION OR DEDUCTION OF OR FROM RENT EXCEPT AS EXPRESSLY PROVIDED HEREIN, AND

(II) TO QUIT, TERMINATE OR SURRENDER THIS LEASE OR THE PREMISES OR ANY PART THEREOF, EXCEPT AS EXPRESSLY PROVIDED HEREIN. Landlord and Tenant specifically agree that the obligations of Tenant hereunder, including, without limitation, the obligation to pay Base Rent and Additional Rent, and the obligations of Landlord, are independent and not mutually dependent covenants and that the failure of Landlord to perform any obligation hereunder shall not justify or empower Tenant to withhold Rent, except as explicitly provided herein, or to terminate this Lease unless Landlord's default constitutes a constructive eviction or except as explicitly provided herein. Landlord and Tenant each acknowledges and agrees that the independent nature of the obligations of Tenant hereunder represents fair, reasonable, and accepted commercial practice with respect to the type of property subject to this Lease, and that this Lease is the product of free and informed negotiation during which both Landlord and Tenant were represented by counsel skilled in negotiating and drafting commercial leases in Massachusetts, and that the acknowledgements and agreements contained herein are made with full knowledge of the holding in Wesson v. Leone Enterprises, Inc., 437 Mass. 708 (2002). Such acknowledgements, agreements and waivers by Tenant are a material inducement to Landlord entering into this Lease.

24.27 Building Name and Signage. Landlord shall have the right at any time to change the name of the Project. Tenant shall not use the name of the Project or use pictures or illustrations of the Project in advertising or other publicity (other than to identify its location), without the prior written consent of Landlord.

24.28 Intentionally Omitted.

24.29 Confidentiality. Tenant acknowledges that the content of this Lease and any related documents are confidential information. Tenant shall keep such confidential information strictly confidential and shall not disclose such confidential information to any person or entity other than Tenant's affiliates, investors, lenders, potential investors, potential lenders, or financial, legal, and space planning consultants. In addition, Tenant may disclose such information without violating this section to the extent that disclosure is reasonably necessary (a) for Tenant to enforce its rights or defend itself under this Lease; (b) for required submissions to any state or federal regulatory body; or (c) for compliance with a valid order of a court or other governmental body having jurisdiction, or any law, statute, or regulation.

Landlord agrees to hold the financial statements and any other information provided by Tenant to Landlord, and any information about Tenant's business or activities in the Premises, in confidence using at least the same degree of care that Landlord uses to protect its own confidential information of a similar nature; provided, however, that Landlord may disclose the financial statements to Landlord's auditors, attorneys, lenders, affiliates, prospective purchasers and investors as reasonably required in the ordinary course of Landlord's operations, provided that Landlord such parties treat the information as confidential and Landlord remains responsible for any unpermitted disclosures by such third parties. Landlord may disclose such information without violating this section to the extent that disclosure is reasonably necessary (a) for Landlord to enforce its rights or defend itself under this Lease; (b) for required submissions to any state or federal regulatory body; or (c) for compliance with a valid order of a court or other governmental body having jurisdiction, or any law, statute, or regulation, provided that, other than in an emergency, before disclosing such information, Landlord shall give Tenant five business days' prior notice of the same to allow Tenant to obtain a protective order or such other judicial relief.

24.30 Landlord's Construction. Except as specifically set forth in this Lease or in the Tenant Work Letter: (i) Landlord has no obligation to alter, remodel, improve, renovate, repair or decorate the Premises, the Building, the Project, or any part thereof; and (ii) no representations or warranties respecting the condition of the Premises, the Building or the Project have been made by Landlord to Tenant. Tenant acknowledges that prior to and during the Lease Term, Landlord will be completing maintenance work pertaining to various portions of the Building, the Premises, and/or the Project, including without limitation, landscaping (collectively, the "**Construction**"). In connection with such Construction, Landlord may, among other things, erect scaffolding or other necessary structures in the Building, temporary limit access to portions of the Project, or perform work in the Building and/or the Project, which work may create noise, dust or leave debris in the Building and/or the Project. Except as otherwise provided herein, Tenant hereby agrees that such Construction and Landlord's actions in connection with such Construction shall in no way constitute a constructive eviction of Tenant nor entitle Tenant to any abatement of Rent; provided Landlord takes all measures so as to not unreasonably interfere with Tenant (and provided Landlord

does not interfere with Tenant's lab work), and provides Tenant with reasonable advance notice (no less than ten (10) days) of any Construction to be undertaken (except in the event of an emergency (in which case Landlord will provide notice as soon as reasonably possible)). Except as provided in Section 6.4, Landlord shall have no responsibility or for any reason be liable to Tenant for any direct or indirect injury to or interference with Tenant's business arising from such Construction, nor shall Tenant be entitled to any compensation or damages from Landlord for loss of the use of the whole or any part of the Premises or of Tenant's personal property or improvements resulting from such Construction or Landlord's actions in connection with such Construction, or for any inconvenience or annoyance occasioned by such Construction or Landlord's actions in connection with such Construction; provided Landlord takes all measures so as to not unreasonably interfere with Tenant (and provided Landlord does not interfere with Tenant's lab work), and provides Tenant with reasonable advance notice (no less than ten (10) days) of any Construction to be undertaken (except in the event of an emergency (in which case Landlord will provide notice as soon as reasonably possible)). Landlord reserves full control over the Project to the extent not inconsistent with Tenant's possession, use, enjoyment, and access to the same as provided in this Lease.

24.31 Net Lease. This Lease shall be deemed and construed to be an "absolute net lease" and, except as herein expressly provided, Landlord shall receive all payments required to be made by Tenant free from all charges, assessments, impositions, expenses and deductions of any and every kind or nature whatsoever. Landlord shall not be required to furnish any services or facilities or to make any repairs, replacements or alterations of any kind in or on the Premises except as specifically provided herein.

[Remainder of Page Intentionally Left Blank; Signatures on Next Page]

- 45 -

908728.01/SD
374622.00146/4-30-21/MLT/bp

ActiveUS 186012966v.2

IN WITNESS WHEREOF, Landlord and Tenant have caused this Lease to be executed as of the day and date first above written.

“Landlord”:

BP3-BOS1 1560 TRAPELO ROAD LLC,
a Delaware limited liability company

By: /s/ W. Neil Fox, III
Name: W. Neil Fox, III
Its: Chief Executive Officer

“Tenant”:

DYNE THERAPEUTICS, INC.,
a Delaware corporation

By: /s/ Joshua Brumm
Name: Joshua Brumm
Its: President

By: /s/ Richard Scalzo
Name: Richard Scalzo
Its: Treasurer

FIRST AMENDMENT TO LEASE

THIS FIRST AMENDMENT TO LEASE (this “**First Amendment**”) is made and entered into as of the 13th day of January, 2021, by and between BP3-BOS1 1560 TRAPELO ROAD LLC, a Delaware limited liability company (“**Landlord**”), and DYNE THERAPEUTICS, INC., a Delaware corporation (“**Tenant**”).

R E C I T A L S:

A. Landlord and Tenant entered into that certain lease dated December 4, 2020 (the “**Lease**”), whereby Landlord leased to Tenant and Tenant leased from Landlord certain premises consisting of the entirety of that certain building located at 1560 Trapelo Road, Waltham, Massachusetts (the “**Building**”).

B. By this First Amendment, Landlord and Tenant desire to modify the Lease as it pertains to the construction and installation of the vivarium and pH neutralization system to be constructed/installed by Landlord in the Premises.

C. Unless otherwise defined herein, capitalized terms as used herein shall have the same meanings as given thereto in the Lease.

NOW, THEREFORE, in consideration of the foregoing recitals and the mutual covenants contained herein, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto hereby agree as follows:

A G R E E M E N T:

1. Vivarium. Section 1.2 of Exhibit B to the Lease is hereby deemed deleted in its entirety and replaced with the following:

“1.2 Vivarium. As part of Landlord’s Tenant Improvement work, Landlord shall construct an approximately 3,500 to 4,500 square foot vivarium in the first (1st) floor portion of the Premises (“**Vivarium**”) pursuant to the vivarium plans described in Schedule 2 attached hereto (the “**Vivarium Plans**”), which Vivarium Plans are hereby approved by Landlord and Tenant. Tenant shall be responsible for the cost of the design and construction of the vivarium in the same manner as the remainder of the Tenant Improvements.”

2. PH Neutralization System. Section 1.3 of Exhibit B to the Lease is hereby deemed deleted in its entirety and replaced with the following:

“1.3 PH Neutralization System. Landlord, as part of Landlord’s Tenant Improvement work, shall install a pH neutralization system to serve the Building meeting the design specifications attached as Schedule 1 hereto. The costs of such pH neutralization system as well as installation and obtaining the original Massachusetts Water Resources Authority (“**MWRA**”) permit shall be Tenant’s responsibility in the same manner as the remainder of the Tenant Improvements. Tenant shall obtain the permit required from MWRA for discharge through the pH neutralization system and Tenant shall, at Tenant’s sole cost, maintain such permit in effect throughout the Lease Term for so long as Tenant is utilizing such permit. The pH neutralization system shall be included in the Tenant Maintenance Responsibilities subject to the provision of the Lease, including without limitation Section 7.1.6 (captioned “Capital Expenditures”). Landlord agrees to reasonably cooperate with Tenant in connection with Tenant obtaining and maintaining the MWRA permit.”

3. Broker. Each party represents and warrants to the other that no broker, agent or finder negotiated or was instrumental in negotiating or consummating this First Amendment. Each party further agrees to defend, indemnify and hold harmless the other party from and against any claim for commission or finder’s fee by any other person or entity who claims or alleges that they were retained or engaged by the second party or at the request of such party in connection with this First Amendment.

4. Counterparts; Electronic Signatures. This First Amendment may be executed in two (2) or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. Counterparts may be delivered via facsimile, electronic mail (including pdf or any electronic signature process complying with the U.S. federal ESIGN Act of 2000) or other transmission method and any counterpart so delivered shall be deemed to have been duly and validly delivered and be valid and effective for all purposes. Electronic signatures shall be deemed original signatures for purposes of this First Amendment and all matters related thereto, with such electronic signatures having the same legal effect as original signatures.

5. No Further Modification. Except as set forth in this First Amendment, all of the terms and provisions of the Lease shall apply and shall remain unmodified and in full force and effect. Effective as of the date hereof, all references to the "Lease" shall refer to the Lease as amended by this First Amendment.

[SIGNATURES APPEAR ON FOLLOWING PAGE]

- 48 -

908728.01/SD
374622.00146/4-30-21/MLT/bp

ActiveUS 186012966v.2

IN WITNESS WHEREOF, this First Amendment has been executed as of the date first set forth above.

LANDLORD:

BP3-BOS1 1560 TRAPELO ROAD LLC,
a Delaware limited liability company

By: /s/ Michael Gerrity
Name: Michael Gerrity
Its: President

TENANT:

DYNE THERAPEUTICS, INC.,
a Delaware corporation

By: /s/ Joshua Brumm
Name: Joshua Brumm
Title: President

By: /s/ Richard Scalzo
Name: Richard Scalzo
Title: Treasurer

JOINDER:

SBNP SIA Mortgage III LLC, a Delaware limited liability company, hereby joins in the execution of this First Amendment for the limited purpose of consenting thereto.

SBNP SIA MORTGAGE III LLC,
a Delaware limited liability company

By: SBNP SIA III LLC,
a Delaware limited liability company, its member

By: Barings LLC,
a Delaware limited liability company, its managing
member

By: /s/ Anthony Soldi
Name: Anthony Soldi
Its: Managing Director

SECOND AMENDMENT TO LEASE

THIS SECOND AMENDMENT TO LEASE (this “**Second Amendment**”) is made and entered into as of the ___ day of March, 2021, by and between BP3-BOS1 1560 TRAPELO ROAD LLC, a Delaware limited liability company (“**Landlord**”), and DYNE THERAPEUTICS, INC., a Delaware corporation (“**Tenant**”).

R E C I T A L S:

- A. Landlord and Tenant entered into that certain lease dated December 4, 2020, as amended by that certain First Amendment to Lease dated as of January 13, 2021 (as amended, the “**Lease**”), whereby Landlord leased to Tenant and Tenant leased from Landlord certain premises consisting of the entirety of that certain building located and addressed at 1560 Trapelo Road, Waltham, Massachusetts (the “**Building**”).
- B. By this Second Amendment, Landlord and Tenant desire to modify the Rent Commencement Date of the Lease.
- C. Unless otherwise defined herein, capitalized terms as used herein shall have the same meanings as given thereto in the Lease.

NOW, THEREFORE, in consideration of the foregoing recitals and the mutual covenants contained herein, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto hereby agree as follows:

A G R E E M E N T:

- 1. **Rent Commencement Date.** The definition of “Rent Commencement Date” in Section 7.3 of the Summary is hereby modified by deleting the number “six (6)” and replacing it with “seven (7).”
- 2. **Lease Expiration Date.** The definition of “Lease Expiration Date” in Section 7.4 of the Summary is hereby deleted in its entirety and replaced with the following:

“7.4 Lease Expiration Date: The date that is immediately preceding the date that is 7 years and 11 months following the Rent Commencement Date; provided, however, if the Rent Commencement Date does not occur on the 1st day of a calendar month, then the “Lease Expiration Date” shall be extended to be the last day of the month in which the date that is 7 years and 11 months following the Rent Commencement Date occurs.”
- 3. **Rent:** The “Months of Lease Term” in the Base Rent schedule set forth in Section 8 of the Summary is hereby modified by deleting the number “96” and replacing it “95.”
- 4. **Broker.** Each party represents and warrants to the other that no broker, agent or finder negotiated or was instrumental in negotiating or consummating this Second Amendment. Each party further agrees to defend, indemnify and hold harmless the other party from and against any claim for commission or finder’s fee by any other person or entity who claims or alleges that they were retained or engaged by the second party or at the request of such party in connection with this Second Amendment.
- 5. **Counterparts; Electronic Signatures.** This Second Amendment may be executed in two (2) or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. Counterparts may be delivered via facsimile, electronic mail (including pdf or any electronic

signature process complying with the U.S. federal ESIGN Act of 2000) or other transmission method and any counterpart so delivered shall be deemed to have been duly and validly delivered and be valid and effective for all purposes. Electronic signatures shall be deemed original signatures for purposes of this Second Amendment and all matters related thereto, with such electronic signatures having the same legal effect as original signatures.

6. No Further Modification. Except as set forth in this Second Amendment, all of the terms and provisions of the Lease shall apply and shall remain unmodified and in full force and effect. Effective as of the date hereof, all references to the "Lease" shall refer to the Lease as amended by this Second Amendment.

[Remainder of Page Intentionally Left Blank; Signature Page Follows]

IN WITNESS WHEREOF, this Second Amendment has been executed as of the date first set forth above.

“LANDLORD”

BP3-BOS1 1560 TRAPELO ROAD LLC,
a Delaware limited liability company

By: /s/ Michael Gerrity
Name: Michael Gerrity
Its: President

“TENANT”

DYNE THERAPEUTICS, INC.,
a Delaware corporation

By: /s/ Joshua Brumm
Name: Joshua Brumm
Title: President

By: /s/ Richard Scalzo
Name: Richard Scalzo
Title: Treasurer

JOINDER:

SBNP SIA Mortgage III LLC, a Delaware limited liability company, hereby joins in the execution of this First Amendment for the limited purpose of consenting thereto.

SBNP SIA MORTGAGE III LLC,
a Delaware limited liability company

By: SBNP SIA III LLC,
a Delaware limited liability company,
its member

By: Barings LLC,
a Delaware limited liability company,
its managing member

By: /s/ Stephen P. Klufas
Name: Stephen P. Klufas
Its: Director

THIRD AMENDMENT TO LEASE

This THIRD AMENDMENT TO LEASE ("**Third Amendment**") is made and entered into as of June 2, 2021, by and between BP3-BOS1 1560 TRAPELO ROAD LLC, a Delaware limited liability company ("**Landlord**"), and DYNE THERAPEUTICS, INC., a Delaware corporation ("**Tenant**").

RECITALS:

A. Landlord and Tenant entered into that certain Lease dated as of December 4, 2020 (the "**Original Lease**"), as amended by (i) that certain First Amendment to Lease dated as of January 13, 2021 (the "**First Amendment**") and (ii) that certain Second Amendment to Lease dated as of March 26, 2021 (the "**Second Amendment**"; the Original Lease, the First Amendment and the Second Amendment collectively, the "**Lease**"), pursuant to which Landlord leased to Tenant and Tenant leased from Landlord certain "Premises", as described in the Lease consisting of that certain building located at 1560 Trapelo Road, Waltham, Massachusetts.

B. Except as otherwise set forth herein, all capitalized terms used in this Third Amendment shall have the same meaning as such terms have in the Lease.

C. Landlord and Tenant desire to modify the Lease as hereinafter provided.

NOW, THEREFORE, in consideration of the foregoing recitals and the mutual covenants contained herein, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agree as follows:

1. **Anticipated Lease Commencement Date.** The definition of "Anticipated Lease Commencement Date" set forth in Section 7.2 of the Summary is hereby modified by deleting the date "July 14, 2021" and replacing it with "September 1, 2021."

2. **Outside Date Modification.** The second paragraph of Article 2 of the Lease is hereby modified by: (i) deleting the number "one hundred twenty (120)" and replacing it with "one hundred fifty (150)", and (ii) deleting the reference to "120th" and replacing it with "150th."

3. **Prepayment of Operating Expenses, Tax Expenses and Utility Costs.** On or before September 1, 2021, Tenant agrees to prepay to Landlord the sum of \$70,428.45 as a prepayment towards Tenant's Share of the annual Operating Expenses, Tax Expenses, and Utilities Costs for the Project.

4. **Rent Commencement Date.** The definition of "Rent Commencement Date" in Section 7.3 of the Summary, as modified by the Second Amendment, is hereby modified by deleting "seven (7) months" and replacing it with "five (5) months and nine (9) days."

5. **Lease Expiration Date.** The definition of "Lease Expiration Date" in Section 7.4 of the Summary, as modified by the Second Amendment, is hereby deleted in its entirety and replaced with the following:

"7.4 Lease Expiration Date:	The date that is immediately preceding the 8th anniversary of the Rent Commencement Date; provided, however, if the Rent Commencement Date does not occur on the 1st day of a calendar month, then the "Lease Expiration Date" shall be extended to be the last day of the month in which the date that the 8th anniversary of the Rent Commencement Date occurs."
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6. **Rent:** The "Months of Lease Term" in the Base Rent schedule set forth in Section 8 of the Summary, as modified by the Second Amendment, is hereby modified by deleting the number "95" and replacing it with "96."

7. Signatures. The parties hereto consent and agree that this Third Amendment may be signed and/or transmitted by facsimile, e-mail of a .pdf document or using electronic signature technology (e.g., via DocuSign or similar electronic signature technology), and that such signed electronic record shall be valid and as effective to bind the party so signing as a paper copy bearing such party's handwritten signature. The parties further consent and agree that (1) to the extent a party signs this Third Amendment using electronic signature technology, by clicking "SIGN", such party is signing this Third Amendment electronically, and (2) the electronic signatures appearing on this Third Amendment shall be treated, for purposes of validity, enforceability and admissibility, the same as handwritten signatures.

8. No Further Modification. Except as set forth in this Third Amendment, all of the terms and provisions of the Lease shall remain unmodified and in full force and effect. Effective as of the date hereof, all references to the "Lease" shall refer to the Lease as amended by this Third Amendment.

9. Broker. Each party represents and warrants to the other that no broker, agent or finder negotiated or was instrumental in negotiating or consummating this Third Amendment. Each party further agrees to defend, indemnify and hold harmless the other party from and against any claim for commission or finder's fee by any other person or entity who claims or alleges that they were retained or engaged by the second party or at the request of such party in connection with this Third Amendment.

10. Acknowledgement. Landlord acknowledges that as of the date hereof there have been no Tenant Delays or Force Majeure delays. Landlord hereby forever waives the right to claim any Tenant Delays or Force Majeure delays based on events or circumstances occurring on or prior to the date of this Third Amendment.

[Remainder of Page Intentionally Left Blank; Signatures Follow]

IN WITNESS WHEREOF, this Third Amendment has been executed as of the day and year first above written.

"Landlord":

BP3-BOS1 1560 TRAPELO ROAD LLC
a Delaware limited liability company

By: /s/ Michael Gerrity

Name: Michael Gerrity

Its: President

"Tenant":

DYNE THERAPEUTICS, INC.,
a Delaware corporation

By: /s/ Joshua Brumm

Name: Joshua Brumm

Title: President

By: /s/ Richard Scalzo

Name: Richard Scalzo

Title: Treasurer

JOINDER:

SBNP SIA Mortgage III LLC, a Delaware limited liability company, hereby joins in the execution of this Third Amendment for the limited purpose of consenting thereto.

SBNP SIA MORTGAGE III LLC,
a Delaware limited liability company

By: SBNP SIA III LLC,
a Delaware limited liability company,
its member

By: Barings LLC,
a Delaware limited liability company,
its managing member

By: /s/ Stephen P. Klufas
Name: Stephen P. Klufas
Its: Director



VIA ELECTRONIC MAIL

June 2, 2021

Romesh Subramanian
9 Alan Street
Framingham, MA 01701

Dear Romesh:

As we have discussed, you are resigning from employment with Dyne Therapeutics, Inc. (the "Company"), effective June 2, 2021 (the "Resignation Date"). As we also discussed, although you are electing to leave the Company, the Company has agreed to provide you with the severance benefits described in paragraph 1 below if you sign and return this letter agreement to me by June 23, 2021 (but no earlier than the Resignation Date) and do not revoke your agreement (as described below). By signing and returning this letter agreement and not revoking your acceptance, you will be entering into a binding agreement with the Company and will be agreeing to the terms and conditions set forth in the numbered paragraphs below, including the release of claims set forth in paragraph 2. Therefore, you are advised to consult with an attorney before signing this letter agreement and you have been given at least twenty-one (21) days to do so. If you sign this letter agreement, you may change your mind and revoke your agreement during the seven (7) day period after you have signed it (the "Revocation Period") by notifying me in writing. If you do not so revoke, this letter agreement will become a binding agreement between you and the Company upon the expiration of the Revocation Period.

Although your receipt of the severance benefits is expressly conditioned on your timely entering into this letter agreement, the following will apply regardless of whether or not you timely enter into this letter agreement:

- As of the Resignation Date, all salary payments from the Company will cease and any benefits you had as of the Resignation Date under Company-provided benefit plans, programs, or practices will terminate, except as required by federal or state law.
- You will receive on the Resignation Date payment for your final wages and any unused vacation time accrued through the Resignation Date.
- You may, if eligible and at your own cost, elect to continue receiving group medical insurance pursuant to the "COBRA" law. Please consult the COBRA materials to be provided under separate cover for details regarding these benefits.
- You are obligated to keep confidential and not to use or disclose any and all non-public information concerning the Company that you acquired during the course of your employment with the Company, including any non-public information concerning the Company's business affairs, business prospects, and financial condition, except as

otherwise permitted by paragraph 8 below. Further, you remain subject to your continuing obligations to the Company as set forth in the Invention and Non-Disclosure Agreement and the Non-Competition and Non-Solicitation Agreement (the “Non-Competition Agreement” and together, the “Restrictive Covenant Agreements”) you previously executed for the benefit of the Company, which, as modified herein, remain in full force and effect. The Company represents you have no other post-employment restrictions with the Company. Further, for purposes of clarity, your post-employment obligations start on your Resignation Date, despite your entering into the Consulting Agreement (as defined below) with the Company.

- You must return to the Company by the Resignation Date all Company property.

If you elect to timely sign and return this letter agreement and do not revoke your acceptance within the Revocation Period, the following terms and conditions will also apply:

Severance Benefits –The Company will provide you with the following severance benefits (the “severance benefits”):

- Consulting Engagement.** The Company and you will enter into a consulting agreement in the form attached hereto as Attachment A (the “Consulting Agreement”), effective as of the Resignation Date. During the Consultation Period set forth in the Consulting Agreement, you shall provide services to the Company as a consultant pursuant to the terms set forth therein. During the Consultation Period, and contingent on your continued provision of services to the Company under the Consulting Agreement or otherwise, the outstanding equity awards previously granted to you by the Company when you were an employee (collectively, the “Equity Awards”) will continue to vest and be exercisable in accordance with the applicable equity plans and agreements. Notwithstanding the foregoing or the provisions of any equity award agreement between the Company and you, you acknowledge that any outstanding stock options that were granted in connection with your employment with the Company and that were intended to be incentive stock options at the time of grant will be treated as nonstatutory stock options beginning three (3) months after the Resignation Date. For the avoidance of doubt, you acknowledge that, should you fail to sign this letter agreement or should you revoke your acceptance of this letter agreement during the Revocation Period, the Consulting Agreement will immediately terminate on the date of any such revocation, in accordance with the terms set forth in the Consulting Agreement.
- COBRA Benefits.** Should you timely elect and be eligible to continue receiving group health insurance pursuant to the “COBRA” law, the Company will, until the earlier of (x) October 2, 2021, and (y) the date on which you obtain alternative coverage (as applicable, the “COBRA Contribution Period”), continue to pay the share of the premiums for such coverage to the same extent it was paying such premiums on your behalf immediately prior to the Resignation Date, as well any administrative fee; provided, however, that such payments shall not commence until after the expiration of the Revocation Period. The remaining balance of any premium costs during the COBRA Contribution Period, and all premium costs (and any administrative fee) thereafter, shall be paid by you on a monthly basis for as long as, and to the extent that, you remain eligible for COBRA continuation. You agree that, should you obtain alternative group health insurance coverage prior to October 2, 2021, you will so inform the Company in writing within five (5) business days of obtaining such coverage.

You will not be eligible for, nor shall you have a right to receive, any payments or benefits from the Company following the Resignation Date other than as set forth in this section

Release of Claims – In consideration of the severance benefits, which you acknowledge you would not otherwise be entitled to receive, you, unless excluded by this Agreement or by law, hereby fully, forever, irrevocably and unconditionally release, remise and discharge the Company, its affiliates, subsidiaries, parent companies, predecessors, and successors, and all of their respective past and present officers, directors, stockholders, partners, members, employees, agents, representatives, plan administrators, attorneys, insurers and fiduciaries (each in their individual and corporate capacities) (collectively, the “Released Parties”) from any and all claims, charges, complaints, demands, actions, causes of action, suits, rights, debts, sums of money, costs, accounts, reckonings, covenants, contracts, agreements, promises, doings, omissions, damages, executions, obligations, liabilities, and expenses (including attorneys’ fees and costs), of every kind and nature that you ever had or now have against any or all of the Released Parties, whether known or unknown, including, but not limited to, any and all claims arising out of or relating to your employment with and/or separation from the Company, including, but not limited to, all claims under Title VII of the Civil Rights Act of 1964, 42 U.S.C. § 2000e et seq., the Americans With Disabilities Act of 1990, 42 U.S.C. § 12101 et seq., the Age Discrimination in Employment Act, 29 U.S.C. § 621 et seq., the Genetic Information Nondiscrimination Act of 2008, 42 U.S.C. § 2000ff et seq., the Family and Medical Leave Act, 29 U.S.C. § 2601 et seq., the Worker Adjustment and Retraining Notification Act (“WARN”), 29 U.S.C. § 2101 et seq., the Rehabilitation Act of 1973, 29 U.S.C. § 701 et seq., Executive Order 11246, Executive Order 11141, the Fair Credit Reporting Act, 15 U.S.C. § 1681 et seq., and the Employee Retirement Income Security Act of 1974 (“ERISA”), 29 U.S.C. § 1001 et seq., all as amended; all claims arising out of the Massachusetts Fair Employment Practices Act, Mass. Gen. Laws ch. 151B, § 1 et seq., the Massachusetts Civil Rights Act, Mass. Gen. Laws ch. 12, §§ 11H and 11I, the Massachusetts Equal Rights Act, Mass. Gen. Laws ch. 93, § 102, Mass. Gen. Laws ch. 214, § 1C (Massachusetts right to be free from sexual harassment law), the Massachusetts Labor and Industries Act, Mass. Gen. Laws ch. 149, § 1 et seq., Mass. Gen. Laws ch. 214, § 1B (Massachusetts right of privacy law), the Massachusetts Maternity Leave Act, Mass. Gen. Laws ch. 149, § 105D, and the Massachusetts Small Necessities Leave Act, Mass. Gen. Laws ch. 149, § 52D, all as amended; all rights and claims under the Massachusetts Wage Act, Mass. Gen. Laws ch. 149, § 148 et seq., as amended (Massachusetts law regarding payment of wages and overtime), including any rights or claims thereunder to unpaid wages, including overtime, bonuses, commissions, and accrued, unused vacation time); all common law claims including, but not limited to, actions in defamation, intentional infliction of emotional distress, misrepresentation, fraud, wrongful discharge, and breach of contract; all claims to any non-vested ownership interest in the Company, contractual or otherwise; all state and federal whistleblower claims to the maximum extent permitted by law; and any claim or damage arising out of your employment with and/or separation from the Company (including a claim for retaliation) under any common law theory or any federal, state or local statute or ordinance not expressly referenced above; *provided, however, that this release of claims does not prevent you from filing a charge with, cooperating with, or participating in any investigation or proceeding before, the Equal Employment Opportunity Commission or a state fair employment practices agency (except that you acknowledge that you may not recover any monetary benefits in connection with any such charge, investigation, or proceeding, and you further waive any rights or claims to any payment, benefit, attorneys’ fees or other remedial relief in connection with any such charge, investigation or proceeding). Further, this release does not release your rights to vested benefits under any 401(k) plan or other ERISA-covered benefit plan (excluding severance) provided by the Company, vested equity and/or your rights to indemnification and defense, if any.*

Continuing Obligations – You acknowledge and reaffirm your confidentiality and non-disclosure obligations discussed on page 1 of this letter agreement, as well as the obligations set forth in the Restrictive Covenant Agreements, which survive your separation from employment as an employee with the Company. You also agree and acknowledge that, in consideration of the Company’s agreements

under this letter agreement and the Consulting Agreement, the “Restricted Period” as defined in the Noncompetition Agreement is hereby amended to include the duration of your employment with the Company and the twenty-four (24) month period thereafter and that, accordingly, your noncompetition restrictions set forth in the Noncompetition Agreement shall remain in full force and effect until the second anniversary of the Resignation Date in accordance with the Noncompetition Agreement, as hereby modified.

Non-Disparagement – You understand and agree that, to the extent permitted by law and except as otherwise permitted by paragraph 8 below, you will not, in public or private, make any false, disparaging, derogatory or defamatory statements, online (including, without limitation, on any social media, networking, or employer review site) or otherwise, to any person or entity, including, but not limited to, any media outlet, industry group, financial institution or current or former employee, board member, consultant, client or customer of the Company, regarding the Company or any of the other Released Parties, or regarding the Company’s business affairs, business prospects, or financial condition.

Return of Company Property – You confirm that you have returned to the Company all keys, files, records (and copies thereof), equipment (including, but not limited to, computer hardware, software, printers, flash drives and other storage devices, wireless handheld devices, cellular phones, tablets, etc.), Company identification, and any other Company owned property in your possession or control, and that you have left intact all, and have otherwise not destroyed, deleted, or made inaccessible to the Company any, electronic Company documents, including, but not limited to, those that you developed or helped to develop during your employment, and that you have not (a) retained any copies in any form or media; (b) maintained access to any copies in any form, media, or location; (c) stored any copies in any physical or electronic locations that are not readily accessible or not known to the Company or that remain accessible to you; or (d) sent, given, or made accessible any copies to any persons or entities that the Company has not authorized to receive such electronic or hard copies; provided, however, that notwithstanding the foregoing, you may retain the laptop computer provided to you by the Company and the files contained on the laptop computer until the earlier of (i) the end of the Consultation Period under the Consulting Agreement and (ii) five (5) business days after the Company has requested its return. You further confirm that you have cancelled all accounts for your benefit, if any, in the Company’s name, including but not limited to, credit cards, telephone charge cards, cellular phone accounts, and computer accounts.

Business Expenses and Final Compensation – You acknowledge that you have been reimbursed by the Company for all business expenses incurred in conjunction with the performance of your employment and that no other reimbursements are owed to you. You further acknowledge that you have received payment in full for all services rendered in conjunction with your employment by the Company, including payment for all wages, bonuses, commissions, and accrued, unused vacation time, and that no other compensation is owed to you except as provided herein.

Confidentiality – You understand and agree that, to the extent permitted by law and except as otherwise permitted by paragraph 8 below or disclosed by the Company, the terms and contents of this letter agreement, and the contents of the negotiations and discussions resulting in this letter agreement, shall be maintained as confidential by you and your agents and representatives and shall not be disclosed except as otherwise agreed to in writing by the Company. Notwithstanding the following you may also share the contents of this Agreement with your immediate family, your counsel, tax advisors and taxing authorities if requested to do so, provided that they agree to hold such information in strict confidence and you agree to be liable if they fail to comply

Scope of Disclosure Restrictions – Nothing in this letter agreement prohibits you from communicating with government agencies about possible violations of federal, state, or local laws or otherwise providing information to government agencies, filing a complaint with government agencies, or participating in government agency investigations or proceedings. You are not required to notify the Company of any such communications; provided, however, that nothing herein authorizes the disclosure of information you obtained through a communication that was subject to the attorney-client privilege. Further, notwithstanding your confidentiality and nondisclosure obligations, you are hereby advised as follows pursuant to the Defend Trade Secrets Act: “An individual shall not be held criminally or civilly liable under any Federal or State trade secret law for the disclosure of a trade secret that (A) is made (i) in confidence to a Federal, State, or local government official, either directly or indirectly, or to an attorney; and (ii) solely for the purpose of reporting or investigating a suspected violation of law; or (B) is made in a complaint or other document filed in a lawsuit or other proceeding, if such filing is made under seal. An individual who files a lawsuit for retaliation by an employer for reporting a suspected violation of law may disclose the trade secret to the attorney of the individual and use the trade secret information in the court proceeding, if the individual (A) files any document containing the trade secret under seal; and (B) does not disclose the trade secret, except pursuant to court order.”

Transfer of Stock – You agree that during the ninety (90) day period commencing on the Resignation Date you shall not offer, pledge, sell, contract to sell, grant any option, right or warrant to purchase or otherwise transfer or dispose of, directly or indirectly, any shares of Common Stock of the Company or any securities convertible into or exercisable or exchangeable for Common Stock of the Company or publicly disclose the intention to do any of the foregoing, whether by a filing under the securities laws or otherwise.

Cooperation – You agree that, to the extent permitted by law, you shall cooperate fully with the Company in the investigation, defense or prosecution of any claims or actions which already have been brought, are currently pending, or which may be brought in the future against the Company by a third party or by or on behalf of the Company against any third party, whether before a state or federal court, any state or federal government agency, or a mediator or arbitrator. Your full cooperation in connection with such claims or actions shall include, but not be limited to, being available to meet with the Company’s counsel, at reasonable times and locations designated by the Company, to investigate or prepare the Company’s claims or defenses, to prepare for trial or discovery or an administrative hearing, mediation, arbitration or other proceeding and to act as a witness when requested by the Company. You further agree that, to the extent permitted by law, you will notify the Company promptly in the event that you are served with a subpoena (other than a subpoena issued by a government agency), or in the event that you are asked to provide a third party (other than a government agency) with information concerning any actual or potential complaint or claim against the Company. The Company will pay for your reasonable and documented expenses for your compliance with this obligation.

Amendment and Waiver – This letter agreement shall be binding upon the parties and may not be modified in any manner, except by an instrument in writing of concurrent or subsequent date signed by duly authorized representatives of the parties hereto. This letter agreement is binding upon and shall inure to the benefit of the parties and their respective agents, assigns, heirs, executors, successors and administrators. No delay or omission by the Company in exercising any right under this letter agreement shall operate as a waiver of that or any other right. A waiver or consent given by the Company on any one occasion shall be effective only in that instance and shall not be construed as a bar to or waiver of any right on any other occasion.

Validity – Should any provision of this letter agreement be declared or be determined by any court of competent jurisdiction to be illegal or invalid, the validity of the remaining parts, terms or provisions shall not be affected thereby and said illegal or invalid part, term or provision shall be deemed not to be a part of this letter agreement.

Nature of Agreement – You understand and agree that this letter agreement is a severance agreement and does not constitute an admission of liability or wrongdoing on the part of the Company or you.

Acknowledgments – You acknowledge that you have been given at least twenty-one (21) days to consider this letter agreement, and that the Company is hereby advising you to consult with an attorney of your own choosing prior to signing this letter agreement. You understand that you may revoke this letter agreement for a period of seven (7) days after you sign this letter agreement by notifying me in writing, and the letter agreement shall not be effective or enforceable until the expiration of this seven (7) day revocation period. You understand and agree that by entering into this letter agreement, you are waiving any and all rights or claims you might have under the Age Discrimination in Employment Act, as amended by the Older Workers Benefit Protection Act, and that you have received consideration beyond that to which you were previously entitled.

Voluntary Assent – You affirm that no other promises or agreements of any kind have been made to or with you by any person or entity whatsoever to cause you to sign this letter agreement, and that you fully understand the meaning and intent of this letter agreement. You further state and represent that you have carefully read this letter agreement, understand the contents herein, freely and voluntarily assent to all of the terms and conditions hereof, and sign your name of your own free act.

Applicable Law – This letter agreement shall be interpreted and construed by the laws of the Commonwealth of Massachusetts, without regard to conflict of laws provisions. You hereby irrevocably submit to and acknowledge and recognize the jurisdiction of the courts of the Commonwealth of Massachusetts, or if appropriate, a federal court located in the Commonwealth of Massachusetts (which courts, for purposes of this letter agreement, are the only courts of competent jurisdiction), over any suit, action or other proceeding arising out of, under or in connection with this letter agreement or the subject matter hereof.

Entire Agreement – This letter agreement contains and constitutes the entire understanding and agreement between the parties hereto with respect to your severance benefits and the settlement of claims against the Company and cancels all previous oral and written negotiations, agreements, and commitments in connection therewith.

Tax Acknowledgement – You acknowledge that you are not relying upon the advice or representation of the Company with respect to the tax treatment of any of the severance benefits set forth in paragraph 1 of this letter agreement and that you shall be responsible for any applicable taxes with respect to such severance benefits under applicable law.

If you have any questions about the matters covered in this letter agreement, please call Katie Kamradt.

Very truly yours,

By: /s/ Joshua Brumm
Joshua Brumm
President and CEO

I hereby agree to the terms and conditions set forth above. I have been given at least twenty-one (21) days to consider this letter agreement, and I have chosen to execute this on the date below. I intend that this letter agreement will become a binding agreement between me and the Company if I do not revoke my acceptance in seven (7) days.

/s/ Romesh Subramanian
Romesh Subramanian

6/2/2021
Date

To be returned in a timely manner as set forth on the first page of this letter agreement.

ATTACHMENT A

CONSULTING AGREEMENT

This Consulting Agreement (the “**Agreement**”), effective as of the Effective Date (as defined herein), is entered into between Dyne Therapeutics, Inc. (the “**Company**”) and Romesh Subramanian (the “**Consultant**”).

WHEREAS, the Company desires to retain the services of the Consultant and the Consultant desires to perform certain services for the Company; and

WHEREAS, the Consultant is in the business of providing such services and has agreed to provide such services pursuant to the terms and conditions set forth in this Agreement.

NOW, THEREFORE in consideration of the mutual covenants and promises contained herein and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by the parties hereto, the parties agree as follows:

1. Services. The Consultant agrees to perform such consulting and advisory services to and for the Company as may be reasonably requested from time to time by the Company. The Company and the Consultant agree that the Company shall not request, and the Consultant shall not be required, to perform services for more than 20 hours in any month without the prior written consent of the Consultant.

2. Term. The term of this Agreement shall commence on June 2, 2021 (the “**Effective Date**”) and shall continue through October 2, 2021 (the “**Expiration Date**”), unless terminated earlier pursuant to the provisions of Section 4 (such period being referred to as the “**Consultation Period**”).

3. Consideration and Reimbursement.

a. Equity Vesting. In full consideration of the services performed by the Consultant under this Agreement, and for so long as the Consultant provides services to the Company pursuant to this Agreement, any and all outstanding and unvested equity awards (options, restricted stock and RSUs) granted to the Consultant by the Company when he was a employee of the Company will continue to vest in accordance with and subject to the terms of the applicable equity plans and award agreements. Vesting will cease immediately upon termination of this Agreement for any reason in accordance with Section 4 below. The Consultant shall have three (3) months following the last day of the Consultation Period to exercise any stock options that have vested and become exercisable as of such date in accordance with and subject to the applicable equity plans and stock option award agreements.

b. Expense Reimbursement. The Company shall reimburse the Consultant for all reasonable out-of-pocket expenses incurred by the Consultant in connection with the performance of the services under this Agreement. The Consultant shall submit to the Company itemized monthly statements, in a form satisfactory to the Company, of such expenses incurred in the previous month. The Company shall pay to the Consultant amounts shown on each such statement within thirty (30) days after receipt thereof. Notwithstanding the foregoing, the Consultant shall not incur total expenses in excess of \$500.00 per month without the prior written approval of the Company.

c. No Employee Benefits. The Consultant’s relationship with the Company will be that of an independent contractor, and the Consultant shall not, in connection with this relationship, be entitled to any benefits, coverages or privileges, including, without limitation, health insurance, social security, unemployment, workers compensation, or pension payments, made available to employees of the Company.

4. Termination. This Agreement may be terminated prior to the Expiration Date in the following manner: (a) by the Company at any time immediately upon written notice if the Consultant has materially breached this Agreement, the severance letter agreement to which this Agreement is attached (the “**Letter Agreement**”) or the Restrictive Covenant Agreements (as defined in the Letter Agreement); (b) by the Consultant at any time immediately upon written notice if the Company has materially breached this Agreement or the Letter Agreement; (c) by the Consultant upon not less than thirty (30) days’ prior written notice; or (d) at any time upon the mutual written consent of the parties hereto. Notwithstanding the foregoing, and for the avoidance of doubt, the Company may terminate this Agreement effective immediately by giving written notice to the Consultant if the Consultant fails to timely sign the Letter Agreement, or revokes the Letter Agreement within seven (7) days after signing it as set forth in the Letter Agreement. In the event of any termination, the Consultant shall be entitled only to reimbursements for expenses incurred in accordance with Section 3(b) prior to termination, and no further payments of any kind will be due. In addition, vesting of the Consultant’s equity awards will cease immediately upon termination. Any written notice under this Section 4 shall explain the reason for the termination.

5. Cooperation. The Consultant shall perform the services hereunder in a professional manner and consistent with the highest industry standards. The Company shall provide such access to its information and property as may be reasonably required in order to permit the Consultant to perform the Consultant’s obligations hereunder and such access will not be a violation of his Restrictive Covenant Obligations or his Letter Agreement. The Consultant shall cooperate with the Company’s personnel, shall not interfere with the conduct of the Company’s business, and shall observe all rules, regulations and security requirements of the Company concerning the safety of persons and property.

6. Proprietary Information and Inventions.

6.1 Proprietary Information.

a. The Consultant acknowledges that the Consultant’s relationship with the Company is one of high trust and confidence and that in the course of the Consultant’s service to the Company, Consultant will have access to and contact with Proprietary Information. The Consultant will not disclose any Proprietary Information to any person or entity other than employees of the Company or use the same for any purposes (other than in the performance of the services) without written approval by an officer of the Company, either during or after the Consultation Period, unless and until such Proprietary Information has become public knowledge without fault by the Consultant.

b. For purposes of this Agreement, Proprietary Information shall mean, by way of illustration and not limitation, all information, whether or not in writing, whether or not patentable and whether or not copyrightable, of a private, secret or confidential nature, owned, possessed or used by the Company, concerning the Company’s business, business relationships or financial affairs, including, without limitation, any Invention, formula, vendor information, customer information, apparatus, equipment, trade secret, process, research, report, technical or research data, clinical data, know-how, computer program, software, software documentation, hardware design, technology, product, processes, methods, techniques, formulas, compounds, projects, developments, marketing or business plan, forecast, unpublished financial statement, budget, license, price, cost, customer, supplier or personnel information or employee list that is communicated to, learned of, developed or otherwise acquired by the Consultant in the course of the Consultant’s service as a consultant to the Company.

c. The Consultant agrees that all files, documents, letters, memoranda, reports, records, data sketches, drawings, models, laboratory notebooks, program listings, computer equipment or devices, computer programs or other written, photographic, or other tangible material containing Proprietary Information, whether created by the Consultant or others, which shall come into Consultant’s

custody or possession, shall be and are the exclusive property of the Company to be used by the Consultant only in the performance of the Consultant's duties for the Company and shall not be copied or removed from the Company premises except in the pursuit of the business of the Company. All such materials or copies thereof and all tangible property of the Company in the custody or possession of the Consultant shall be delivered to the Company, upon the earlier of (i) a request by the Company or (ii) the termination of this Agreement. After such delivery, the Consultant shall not retain any such materials or copies thereof or any such tangible property.

d. The Consultant agrees that Consultant's obligation not to disclose or to use information and materials of the types set forth in paragraphs (b) and (c) above, and Consultant's obligation to return materials and tangible property set forth in paragraph (c) above extends to such types of information, materials and tangible property of customers of the Company or suppliers to the Company or other third parties who may have disclosed or entrusted the same to the Company or to the Consultant.

e. The Consultant acknowledges that the Company from time to time may have agreements with other persons or with the United States Government, or agencies thereof, that impose obligations or restrictions on the Company regarding inventions made during the course of work under such agreements or regarding the confidential nature of such work. The Consultant agrees to be bound by all such obligations and restrictions that are known to the Consultant and to take all action necessary to discharge the obligations of the Company under such agreements.

f. The Consultant's obligations under this Section 6.1 shall not apply to any information that (i) is or becomes known to the general public under circumstances involving no breach by the Consultant or others of the terms of this Section 6.1, (ii) is generally disclosed to third parties by the Company without restriction on such third parties, or (iii) is approved for release by written authorization of an officer of the Company. Further, nothing herein prohibits the Consultant from communicating with government agencies about possible violations of federal, state, or local laws or otherwise providing information to government agencies or participating in government agency investigations or proceedings. In addition, notwithstanding the Consultant's confidentiality and nondisclosure obligations, the Consultant is hereby advised as follows pursuant to the Defend Trade Secrets Act: "An individual shall not be held criminally or civilly liable under any Federal or State trade secret law for the disclosure of a trade secret that (A) is made (i) in confidence to a Federal, State, or local government official, either directly or indirectly, or to an attorney; and (ii) solely for the purpose of reporting or investigating a suspected violation of law; or (B) is made in a complaint or other document filed in a lawsuit or other proceeding, if such filing is made under seal. An individual who files a lawsuit for retaliation by an employer for reporting a suspected violation of law may disclose the trade secret to the attorney of the individual and use the trade secret information in the court proceeding, if the individual (A) files any document containing the trade secret under seal; and (B) does not disclose the trade secret, except pursuant to court order."

6.2 Inventions.

a. The Consultant will make full and prompt disclosure to the Company of all inventions, creations, improvements, enhancements, designs, innovations, discoveries, processes, methods, techniques, developments, software, computer programs, and works of authorship, whether or not patentable and whether or not copyrightable, that are created, made, conceived or reduced to practice by the Consultant or under the Consultant's direction or jointly with others (i) during the Consultation Period if made for the Company in the course of the performance of the consulting services hereunder or (ii) during or after the Consultation Period if resulting or derived from Proprietary Information, whether or not during normal working hours or on the premises of the Company (all of which are collectively referred to in this Agreement as "**Inventions**"). The Consultant agrees to assign and does hereby assign to the Company (or any person or entity designated by the Company) all of the Consultant's right, title and interest in and to all

Inventions and all related patents, patent applications, copyrights created in the work(s) of authorship, trademarks, trade names, and other industrial and intellectual property rights and applications therefor in the United States and elsewhere. However, clause (i) of this subsection (a) shall not apply to Inventions that do not relate to the present or planned business or research and development of the Company and that are made and conceived by the Consultant not during normal working hours, not on the Company's premises and not using the Company's tools, devices, equipment or Proprietary Information. The Consultant understands that, to the extent this Agreement shall be construed in accordance with the laws of any state that precludes a requirement that an individual assign certain classes of inventions, this Section 6.2(a) shall be interpreted not to apply to any invention that a court rules and/or the Company agrees falls within such classes. The Consultant further acknowledges that each original work of authorship that is made by the Consultant (solely or jointly with others) within the scope of the Agreement and which is protectable by copyright is a "work made for hire," as that term is defined in the United States Copyright Act. The Consultant hereby waives all claims to moral rights in any Inventions.

b. The Consultant agrees that if, in the course of performing the services, the Consultant incorporates into any Invention developed under this Agreement any preexisting invention, improvement, development, concept, discovery or other proprietary information owned by the Consultant or in which the Consultant has an interest ("**Prior Inventions**"), (i) the Consultant will inform the Company, in writing before incorporating such Prior Inventions into any Invention, and (ii) the Company is hereby granted a nonexclusive, royalty-free, perpetual, irrevocable, transferable worldwide license with the right to grant and authorize sublicenses, to make, have made, modify, use, import, offer for sale, sell, reproduce, distribute, modify, adapt, prepare derivative works of, display, perform, and otherwise exploit such Prior Inventions, without restriction, including, without limitation, as part of or in connection with such Invention, and to practice any method related thereto. The Consultant will not incorporate any invention, improvement, development, concept, discovery or other proprietary information owned by any third party into any Invention without the Company's prior written permission.

c. The Consultant agrees to cooperate fully with the Company, both during and after the Consultation Period, with respect to the procurement, maintenance, and enforcement of copyrights, patents and other intellectual property rights (both in the United States and foreign countries) relating to Inventions. The Consultant shall sign all papers, including, without limitation, copyright applications, patent applications, declarations, oaths, formal assignments, assignments of priority rights, and powers of attorney, which the Company may deem necessary or desirable in order to protect its rights and interests in any Invention. The Consultant further agrees that if the Company is unable, after reasonable effort, to secure the signature of the Consultant on any such papers, any executive officer of the Company shall be entitled to execute any such papers as the agent and the attorney-in-fact of the Consultant, and the Consultant hereby irrevocably designates and appoints each executive officer of the Company as the Consultant's agent and attorney-in-fact to execute any such papers on the Consultant's behalf, and to take any and all actions as the Company may deem necessary or desirable in order to protect its rights and interests in any Invention, under the conditions described in this sentence.

d. The Consultant shall maintain adequate and current written records (in the form of notes, sketches, drawings and as may be specified by the Company) to document the conception and/or first actual reduction to practice of any Invention. Such written records shall be available to and remain the sole property of the Company at all times.

7. Non-Exclusivity. The Company retains the right to contract with other companies and/or individuals for consulting services without restriction. Similarly, except as and to the extent set forth in the Letter Agreement and the Restrictive Covenant Agreements, the Consultant retains the right to contract with other companies or entities during the Consultation Period..

8. Other Agreements; Warranty.

a. The Consultant hereby represents that, except as the Consultant has disclosed in writing to the Company, the Consultant is not bound by the terms of any agreement with any third party to refrain from using or disclosing any trade secret or confidential or proprietary information in the course of Consultant's consultancy with the Company, to refrain from competing, directly or indirectly, with the business of such third party or to refrain from soliciting employees, customers or suppliers of such third party. The Consultant further represents that Consultant's performance of all the terms of this Agreement and the performance of the services as a consultant of the Company do not and will not breach any agreement with any third party to which the Consultant is a party (including, without limitation, any nondisclosure or non-competition agreement), and that the Consultant will not disclose to the Company or induce the Company to use any confidential or proprietary information or material belonging to any current or previous employer or others.

b. The Consultant hereby represents, warrants and covenants that Consultant has the skills and experience necessary to perform the services, that Consultant will perform said services in a professional, competent and timely manner, that Consultant has the power to enter into this Agreement and that Consultant's performance hereunder will not infringe upon or violate the rights of any third party or violate any federal, state or municipal laws.

9. Independent Contractor Status.

a. The Consultant shall perform all services under this Agreement as an "independent contractor" and not as an employee or agent of the Company. The Consultant is not authorized to assume or create any obligation or responsibility, express or implied, on behalf of, or in the name of, the Company or to bind the Company in any manner. Nothing herein shall create, expressly or by implication, a partnership, joint venture or other association between the parties.

b. The Consultant shall have the right to control and determine the time, place, methods, manner and means of performing the services. In performing the services, the amount of time devoted by the Consultant on any given day will be entirely within the Consultant's control, and the Company will rely on the Consultant to put in the amount of time necessary to fulfill the requirements of this Agreement. The Consultant will provide all equipment and supplies required to perform the services. The Consultant is not required to attend regular meetings at the Company. However, upon reasonable notice, the Consultant shall meet with representatives of the Company at a location to be designated by the parties to this Agreement.

c. In the performance of the services, the Consultant has the authority to control and direct the performance of the details of the services, the Company being interested only in the results obtained. However, the services contemplated by the Agreement must meet the Company's standards and approval and shall be subject to the Company's general right of inspection and supervision to secure their satisfactory completion.

d. The Consultant shall not use the Company's trade names, trademarks, service names or service marks without the prior approval of the Company.

e. The Consultant shall be solely responsible for all state and federal income taxes, unemployment insurance and social security taxes in connection with this Agreement and for maintaining adequate workers' compensation insurance coverage.

10. Remedies. The Consultant acknowledges that any breach of the provisions of Section 6 of this Agreement shall result in serious and irreparable injury to the Company for which the Company cannot be adequately compensated by monetary damages alone. The Consultant agrees, therefore, that, in addition to any other remedy the Company may have, the Company shall be entitled to enforce the specific performance of this Agreement by the Consultant and to seek both temporary and permanent injunctive relief (to the extent permitted by law) without the necessity of proving actual damages or posting a bond.

11. Indemnification. The Consultant shall be solely liable for, and shall indemnify, defend and hold harmless the Company and its successors and assigns from and against any claim or liability of any kind (including penalties, fees or charges) resulting from the Consultant's failure to pay the taxes, penalties, and payments referenced in Section 9(e) of this Agreement.

12. Notices. All notices required or permitted under this Agreement shall be in writing and shall be deemed effective upon personal delivery, upon confirmation of delivery by electronic mail or upon deposit with an express courier for delivery by overnight mail, addressed to the other party at the address shown above, or at such other address or addresses as either party shall designate to the other in accordance with this Section 12.

13. Pronouns. Whenever the context may require, any pronouns used in this Agreement shall include the corresponding masculine, feminine or neuter forms, and the singular forms of nouns and pronouns shall include the plural, and vice versa.

14. Entire Agreement. This Agreement constitutes the entire agreement between the parties and supersedes all prior agreements and understandings, whether written or oral, relating to the subject matter of this Agreement; provided, however, for the avoidance of doubt, that nothing herein supersedes the Letter Agreement, equity award agreements or the Restrictive Covenant Agreements into which the Consultant entered in connection with his prior employment by the Company, which remain in full force and effect.

15. Amendment. This Agreement may be amended or modified only by a written instrument executed by both the Company and the Consultant.

16. Non-Assignability of Contract. This Agreement is personal to the Consultant and the Consultant shall not have the right to assign any of Consultant's rights or delegate any of Consultant's duties without the express written consent of the Company. Any non-consented-to assignment or delegation, whether express or implied or by operation of law, shall be void and shall constitute a breach and a default by the Consultant.

17. Governing Law. This Agreement shall be governed by and construed in accordance with the laws of the Commonwealth of Massachusetts without giving effect to any choice or conflict of law provision or rule that would cause the application of laws of any other jurisdiction.

18. Successors and Assigns. This Agreement shall be binding upon, and inure to the benefit of, both parties and their respective successors and assigns, including any corporation with which, or into which, the Company may be merged or which may succeed to its assets or business, provided, however, that the obligations of the Consultant are personal and shall not be assigned by Consultant.

19. Interpretation. If any restriction set forth in Section 6 is found by any court of competent jurisdiction to be unenforceable because it extends for too long a period of time or over too great a range of activities or in too broad a geographic area, it shall be interpreted to extend only over the maximum period of time, range of activities or geographic area as to which it may be enforceable.

20. Survival. Sections 4 through 20 shall survive the expiration or termination of this Agreement.

21. Miscellaneous.

a. No delay or omission by the Company in exercising any right under this Agreement shall operate as a waiver of that or any other right. A waiver or consent given by the Company on any one occasion shall be effective only in that instance and shall not be construed as a bar or waiver of any right on any other occasion.

b. The captions of the sections of this Agreement are for convenience of reference only and in no way define, limit, or affect the scope or substance of any section of this Agreement.

c. In the event that any provision of this Agreement shall be invalid, illegal or otherwise unenforceable, the validity, legality and enforceability of the remaining provisions shall in no way be affected or impaired thereby.

[Remainder of Page Intentionally Left Blank]

**CERTIFICATION OF PRINCIPAL EXECUTIVE OFFICER
PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, Joshua Brumm, hereby certify that:

1. I have reviewed this Quarterly Report on Form 10-Q of Dyne Therapeutics, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (c) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: August 5, 2021

/s/ Joshua Brumm

Joshua Brumm

President and Chief Executive Officer

(Principal Executive Officer)

**CERTIFICATION OF PRINCIPAL FINANCIAL OFFICER
PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, Richard Scalzo, hereby certify that:

1. I have reviewed this Quarterly Report on Form 10-Q of Dyne Therapeutics, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (c) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: August 5, 2021

/s/ Richard Scalzo

Richard Scalzo

Vice President of Accounting and

Administration and Treasurer

(Principal Financial and Accounting Officer)

**CERTIFICATION OF PRINCIPAL EXECUTIVE OFFICER
PURSUANT TO 18 U.S.C. SECTION 1350,
AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

I, Joshua Brumm, certify pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that, to my knowledge, the Quarterly Report on Form 10-Q of Dyne Therapeutics, Inc. for the fiscal quarter ended June 30, 2021 fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 and the information contained in such Form 10-Q fairly presents, in all material respects, the financial condition and results of operations of Dyne Therapeutics, Inc.

/s/ Joshua Brumm

Joshua Brumm

President and Chief Executive Officer

(Principal Executive Officer)

August 5, 2021

**CERTIFICATION OF PRINCIPAL FINANCIAL OFFICER
PURSUANT TO 18 U.S.C. SECTION 1350,
AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

I, Richard Scalzo, certify pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that, to my knowledge, the Quarterly Report on Form 10-Q of Dyne Therapeutics, Inc. for the fiscal quarter ended June 30, 2021 fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 and the information contained in such Form 10-Q fairly presents, in all material respects, the financial condition and results of operations of Dyne Therapeutics, Inc.

/s/ Richard Scalzo

Richard Scalzo

Vice President of Accounting and Administration and
Treasurer

(Principal Financial and Accounting Officer)

August 5, 2021