# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

		FORM 10-Q	
X	QUARTERLY REPORT PURSUANT T	O SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934	
		For the quarterly period ended March 31, 2019	
		or	
	TRANSITION REPORT PURSUANT TO	O SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934	
		For the transition period fromto	
		Commission File Number: 001-32979	
		Decular Templates, Inc. Exact name of registrant as specified in its charter)	
	Delaware (State or other jurisdiction of incorporation or organization)	94-3409596 (I.R.S. Employer Identification No.)	
	9301 Amberglen Blvd Suite 100 Austin, TX 78729 (Address of principal executive offices)	78729 (Zip Code)	
		(512) 869-1555 (Registrant's telephone number, including area code)	
		reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding ired to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes 🗵 N	g 1: No
		electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T for such shorter period that the registrant was required to submit such files). Yes 🗵 No 🗆	
		erated filer, an accelerated filer, non-accelerated filer, a smaller reporting company or an emerging growth elerated filer", "smaller reporting company" and "emerging growth company" in Rule 12b-2 of the Exchange A	Act
Large	accelerated filer	Accelerated filer	
Non-	accelerated filer	Smaller reporting company	X
Emer	ging growth company $\Box$		
	emerging growth company, indicate by check mark if th inting standards provided pursuant to Section 13(a) of the	e registrant has elected not to use the extended transition period for complying with any new or revised financial e Exchange Act. $\Box$	al
ndica	ate by check mark whether the registrant is a shell comp	any (as defined in Rule 12b-2 of the Exchange Act). Yes □ No ⊠	
	rities registered pursuant to Section 12(b) of the Act:  Title of each class mmon Stock, \$0.001 Par Value Per Share  MTEM	Name of each exchange on which registered The Nasdaq Capital Market	

On May 3, 2019, there were 36,769,151 shares of common stock, par value \$0.001 per share, of Molecular Templates, Inc. outstanding.

# FORWARD-LOOKING STATEMENTS

This Quarterly Report on Form 10-Q contains forward-looking statements that involve risks and uncertainties. We make such forward-looking statements pursuant to the safe harbor provisions of the Private Securities Litigation Reform Act of 1995 and other federal securities laws. All statements, other than statements of historical facts contained herein, regarding our strategy, future operations, future financial position, future revenue, projected costs, prospects, plans, objectives of management and expected market growth are forward-looking statements. In some cases, you can identify forward-looking statements by terminology such as "may," "will," "should," "expects," "intends," "plans," "anticipates," "believes," "estimates," "predicts," "potential," "continue" or the negative of these terms or other comparable terminology, although not all forward-looking statements contain these identifying words. These forward-looking statements include, but are not limited to, statements about:

- the implementation of our business strategies, including our ability to pursue development pathways and regulatory strategies for MT-3724 and other engineered toxin body, or ETB, product candidates;
- the timing and our ability to advance the development of our product candidates;
- · our plans to pursue discussions with regulatory authorities, and the anticipated timing, scope and outcome of related regulatory actions or guidance;
- our ability to establish and maintain potential new partnering or collaboration arrangements for the development and commercialization of ETB product candidates;
- · our financial condition, including our ability to obtain the funding necessary to advance the development of our product candidates;
- the anticipated progress of our product candidate development programs, including whether our ongoing and potential future clinical trials will achieve clinically relevant results;
- our ability to generate data and conduct analyses to support the regulatory approval of our product candidates
- our ability to establish and maintain intellectual property rights for our product candidates;
- · whether any product candidates that we are able to commercialize are safer or more effective than other marketed products, treatments or therapies;
- our ability to discover and develop additional product candidates suitable for clinical testing;
- · our ability to identify, in-license or otherwise acquire additional product candidates and development programs;
- our anticipated research and development activities and projected expenditures;
- · our ability to complete preclinical and clinical testing successfully for new product candidates that we may develop or license;
- · our ability to have manufactured active pharmaceutical ingredient, or API, and drug product that meet required release and stability specifications;
- our ability to have manufactured sufficient supplies of drug product for clinical testing and commercialization;
- our ability to obtain licenses to any necessary third-party intellectual property;
- our ability to retain and hire necessary employees and appropriately staff our development programs; and
- the sufficiency of our cash resources; and other risks and uncertainties, including those listed under Part II, Item 1A, "Risk Factors".

Any forward-looking statements in this Quarterly Report on Form 10-Q reflect our current views with respect to future events or to our future financial performance and involve known and unknown risks, uncertainties and other factors that may cause our actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by these forward-looking statements. Factors that may cause actual results to differ materially from current expectations include, among other things, those listed under Part II, Item 1A, "Risk Factors" and elsewhere in this Quarterly Report on Form 10-Q. Given these uncertainties, you should not place undue reliance on these forward-looking statements. Except as required by law, we assume no obligation to update or revise these forward-looking statements for any reason, even if new information becomes available in the future.

This Quarterly Report on Form 10-Q also contains estimates, projections and other information concerning our industry, our business, and the markets for certain diseases, including data regarding the incidence and prevalence of certain medical conditions. Information that is based on estimates, forecasts, projections, market research or similar methodologies is inherently subject to uncertainties and actual events or circumstances may differ materially from events and circumstances reflected in this information. Unless otherwise expressly stated, we obtained this industry, business, market and other data from reports, research surveys, studies and similar data prepared by market research firms and other third parties, industry, medical and general publications, government data and similar sources.

# Molecular Templates, Inc.

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# PART I. FINANCIAL INFORMATION

# ITEM 1. FINANCIAL STATEMENTS

# Molecular Templates, Inc. CONDENSED CONSOLIDATED BALANCE SHEETS (in thousands, except share and per share data)

		March 31, 9 (unaudited)	I	December 31, 2018
ASSETS				
Current assets:				
Cash and cash equivalents	\$	37,855	\$	87,721
Marketable securities, current		45,720		10,234
Prepaid expenses		2,005		2,244
Accounts receivable from related party		295		240
Other current assets		5,085		4,424
Total current assets		90,960		104,863
Operating lease right-of-use assets, non-current		11,131		_
Property and equipment, net		7,108		6,851
In-process research and development		26,623		26,623
Other assets		4,783		1,821
Total assets	\$	140,605	\$	140,158
LIABILITIES AND STOCKHOLDERS' EQUITY		<u> </u>		<u> </u>
Current liabilities:				
Accounts payable	\$	1,582	\$	780
Accrued liabilities		5,979		5,357
Deferred revenue, current		19,307		26,231
Other current liabilities		1,232		141
Total current liabilities		28,100		32,509
Deferred revenue, non-current		2,065		2,670
Long-term debt, net		3,159		3,254
Operating lease liabilities, non-current		10,770		_
Other liabilities		374		819
Total liabilities		44,468		39,252
Commitments and contingencies (Note 9)				
Stockholders' equity				
Common stock, \$0.001 par value:				
Authorized: 150,000,000 shares; issued and outstanding:				
36,756,651 shares at March 31, 2019 and 36,736,012 shares at December 31, 2018		37		37
Additional paid-in capital		196,972		195,573
Accumulated other comprehensive loss		_		_
Accumulated deficit		(100,872)		(94,704)
Total stockholders' equity		96,137		100,906
Total liabilities and stockholders' equity	\$	140,605	\$	140,158

# Molecular Templates, Inc. CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE LOSS (in thousands, except share and per share data) (unaudited)

		Three Months Ended March 31,			
		2019		2018	
Research and development revenue - from related party	\$	6,413	\$	163	
Research and development revenue - other		_		68	
Grant revenue		595		251	
Total revenue		7,008		482	
Operating expenses:					
Research and development		8,454		6,687	
General and administrative		4,935		2,910	
Total operating expenses		13,389		9,597	
Loss from operations		6,381		9,115	
Interest and other income, net		510		82	
Interest and other expense, net		(293)		(295)	
Change in fair value of warrant liabilities		(4)		614	
Net loss attributable to common shareholders	\$	6,168	\$	8,714	
Net loss per share attributable to common shareholders:	<del></del>				
Basic and diluted	\$	0.17	\$	0.32	
Weighted average number of shares used in net loss per share calculations:					
Basic and diluted		36,738,993		26,989,693	
Other comprehensive loss:					
Unrealized gain (loss) on available-for-sale securities		_		_	
Comprehensive loss	\$	6,168	\$	8,714	

# MOLECULAR TEMPLATES, INC. CONDENSED CONSOLIDATED STATEMENTS OF STOCKHOLDERS' EQUITY (DEFICIT) (in thousands, except share data) (unaudited)

				A	Additional	A	occumulated Other			Sto	Total ckholders'
	Comm	on Stoc	k		Paid-In	Co	omprehensive	Acci	umulated		Equity
	Shares	A	Amount		Capital	In	come (Loss)	I	Deficit	(	Deficit)
Balances, December 31, 2018	36,736,012	\$	37	\$	195,573	\$	_	\$	(94,704)	\$	100,906
Issuance of common stock pursuant to stock plans	20,639		_		38		_		_		38
Stock-based compensation	_		_		1,361		_		_		1,361
Net loss			_		_		_		(6,168)		(6,168)
Balances, March 31, 2019	36,756,651		37		196,972		_		(100,872)		96,137
Balances, December 31, 2017	26,898,330		27		141,733		_		(64,471)		77,289
Issuance of common stock pursuant to stock plans	161,705		1		147		_		_		148
Issuance of warrant to purchase common stock in relation to term											
loan facility	_		_		1,521		_		_		1,521
Stock-based compensation	_		_		643		_		_		643
Cumulative-effect adjustment upon adoption of new accounting									5.4		5.4
standards	_		_		_		_		54		54
Net loss									(8,714)		(8,714)
Balances, March 31, 2018	27,060,035	\$	28	\$	144,044	\$		\$	(73,131)	\$	70,941

# Molecular Templates, Inc. CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS (in thousands) (unaudited)

		Three Mont			
	20	19		2018	
Cash flows from operating activities:					
Net loss	\$	6,168	\$	8,714	
Adjustments to reconcile net loss to net cash used in operating activities:					
Depreciation		177		72	
Stock-based compensation expense		1,360		643	
Amortization of debt discount and accretion related to debt		105		63	
Change in common stock warrant fair value		4		(615)	
Accretion of asset retirement obligations		11		8	
Loss on extinguishment of debt		_		115	
Loss on disposal of equipment		_		2	
Changes in operating assets and liabilities:					
Prepaid expenses		239		(58)	
Accounts receivable from related party		(55)		(4,000)	
Other current assets		(661)		(71)	
Other assets		321		_	
Accounts payable		802		(355)	
Accrued liabilities		622		110	
Other current liabilities		_		34	
Other liabilities		(204)		198	
Deferred revenue		(7,529)		3,585	
Net cash used in operating activities		(10,976)		(8,983)	
Cash flows from investing activities:			_		
Purchases of property and equipment		(625)		(1,719)	
		(36,588)		`	
Purchase of marketable securities					
Sales of marketable securities		1,293		_	
Net cash used in investing activities		(35,920)		(1,719)	
Cash flows from financing activities:					
Payments of capital lease obligations		_		(13)	
Proceeds from issuance of long-term debt and warrants, net		_		4,537	
Repayment of long-term debt		_		(3,605)	
Proceeds from stock option exercises		38		148	
Principal payments on finance leases		(8)		_	
Net cash provided by financing activities		30		1,067	
Net decrease in cash, cash equivalents, and restricted cash		(46,866)		(9,635)	
Cash, cash equivalents and restricted cash, beginning of period		87,721	-	58,910	
Cash, cash equivalents and restricted cash, end of period	\$	40,855	\$	49,275	
Supplemental Cash Flow Information	Ψ	10,055	Ψ	17,213	
Cash paid for interest	\$	174	\$	51	
Cash pard for interest	φ	1/4	Ф	31	

# Molecular Templates, Inc. NOTES TO UNAUDITED CONDENSED CONSOLIDATED FINANCIAL STATEMENTS

# NOTE 1 — ORGANIZATION AND SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

# Nature of the Business

Molecular Templates, Inc. (the "Company" or "Molecular") is a clinical stage biopharmaceutical company formed in 2001, with a biologic therapeutic platform for the development of novel targeted therapeutics for cancer and other diseases, headquartered in Austin, Texas. The Company's focus is on the research and development of therapeutic compounds for a variety of cancers. Molecular operates its business as a single segment, as defined by U.S. generally accepted accounting principles ("U.S. GAAP").

# Basis of Presentation

The accompanying unaudited condensed consolidated financial statements have been prepared in accordance with U.S. GAAP pursuant to the requirements of the Securities and Exchange Commission ("SEC") for interim financial information and with the instructions to Form 10-Q and Rule 10-01 of Regulation S-X promulgated under the Securities Exchange Act of 1934, as amended (the "Exchange Act"). Accordingly, they do not include all of the information and footnotes required by U.S. GAAP for complete financial statements. The unaudited interim condensed consolidated financial statements have been prepared on the same basis as the annual consolidated financial statements. In the opinion of management, all adjustments, consisting only of normal recurring adjustments necessary for the fair presentation of results for the periods presented, have been included. The results of operations of any interim period are not necessarily indicative of the results of operations for the full year or any other interim period.

The preparation of condensed consolidated financial statements requires management to make estimates and assumptions that affect the recorded amounts reported therein. A change in facts or circumstances surrounding the estimates could result in a change to estimates and impact future operating results.

The unaudited condensed consolidated financial statements and related disclosures have been prepared with the presumption that users of the interim unaudited condensed consolidated financial statements have read or have access to the audited consolidated financial statements for the preceding fiscal year. Accordingly, these unaudited condensed consolidated financial statements should be read in conjunction with the audited consolidated financial statements and notes thereto for the year ended December 31, 2018 included in the Company's Annual Report on Form 10-K filed with the SEC on March 29, 2019.

The unaudited condensed consolidated financial statements include the accounts of the Company and its wholly owned subsidiaries, and reflect the elimination of intercompany accounts and transactions.

# Recently Adopted Accounting Pronouncements

Leases

In February 2016, the Financial Accounting Standards Board ("FASB") established Topic 842, Leases, by issuing Accounting Standards Update (ASU) No. 2016-02, which supersedes ASC 840, Leases, and requires lessees to recognize leases on-balance sheet and disclose key information about leasing arrangements. Topic 842 was subsequently amended by ASU No. 2018-01, Land Easement Practical Expedient for Transition to Topic 842; ASU No. 2018-10, Codification Improvements to Topic 842, Leases; and ASU No. 2018-11, Targeted Improvements. Topic 842, as amended, (the "new lease standard") establishes a right-of-use model (ROU) that requires a lessee to recognize a ROU asset and lease liability on the balance sheet for all leases with a term longer than 12 months. Leases will be classified as finance or operating, with classification affecting the pattern and classification of expense recognition in the income statement.

We adopted the new lease standard on January 1, 2019 and used the effective date as our date of initial adoption. Consequently, financial information will not be updated, and the disclosures required under the new standard will not be provided for earlier periods.

We have completed a qualitative and quantitative assessment of our lease portfolio, in which the standard had a material impact on our condensed consolidated balance sheet but did not have an impact on our condensed consolidated income statement. Upon adoption, we recognized lease liabilities of approximately \$4.7 million based on the present value of the remaining minimum rental payments under current leasing standards for our existing operating leases. The corresponding ROU assets of \$4.2 million recognized upon adoption are net of deferred rent.

The new standard provides a number of optional practical expedients in transition. We elected the practical expedients, which permits us not to reassess under the new standard our prior conclusions about lease identification, lease classification and initial direct

costs. We did not elect the use-of-hindsight or the practical expedient pertaining to land easements; the latter not being applicable to us. The new standard dso provides practical expedients for an entity's ongoing accounting. We elected the short-term lease recognition exemption for all leases that qualify. This means, for those leases that qualify, we will not recognize ROU assets or lease liabilities, and this includes not recognizing ROU assets or lease liabilities for existing short-term leases of those assets in transition. We also elected the practical expedient to not separate lease and non-lease components for our office leases.

# Significant Accounting Policies

There have been no material changes to the Company's significant accounting policies during the three months ended March 31, 2019, as compared to the significant accounting policies disclosed in Note 1, Summary of significant accounting policies, to the consolidated financial statements in the Company's Annual Report on Form 10-K for the year ended December 31, 2018, other than as noted below.

# Lease Accounting

At inception of a contract, we determine whether an arrangement is or contains a lease. For all leases, we determine the classification as either operating leases or financing leases. Operating leases are included in Operating lease right-of-use assets and Operating lease liabilities in our Condensed Consolidated Balance Sheets.

Lease recognition occurs at the commencement date and lease liability amounts are based on the present value of lease payments over the lease term. Our lease terms may include options to extend or terminate the lease when it is reasonably certain that we will exercise that option. If a lease does not provide information to determine an implicit interest rate, we use our incremental borrowing rate in determining the present value of lease payments. Right-of-use (ROU) assets represent our right to use an underlying asset for the lease term, and lease liabilities represent our obligation to make lease payments under the lease. ROU assets also include any lease payments made prior to the commencement date and exclude lease incentives received. Operating lease expense is recognized on a straight-line basis over the lease term. The depreciable life of assets and leasehold improvements are limited by the expected lease term, unless there is a transfer of title or purchase option reasonably certain of exercise. Lease agreements with both lease and nonlease components, are generally accounted for together as a single lease component.

# Cash and Cash Equivalents

The Company considers temporary investments with original maturities of three months or less from date of purchase to be cash equivalents. Restricted cash is recorded in other assets, based on when the restrictions expire.

# Concentration of Credit Risk and Other Risks and Uncertainties

Financial instruments that potentially subject the Company to concentrations of risk consist principally of cash and cash equivalents, investments, long term debt and accounts receivable.

The Company's cash and cash equivalents are with two major financial institutions in the United States.

The Company performs an ongoing credit evaluation of its strategic partners' financial conditions and generally does not require collateral to secure accounts receivable from its strategic partners. The Company's exposure to credit risk associated with non-payment will be affected principally by conditions or occurrences within Takeda Pharmaceutical Company Ltd. ("Takeda"). Approximately 92% and 34% of total revenues for the three months ended March 31, 2019 and March 31, 2018, respectively, were derived from Takeda. There was \$0.3 million in accounts receivable due from Takeda at March 31, 2019. See also Note 3, Research and Development Agreements, regarding the collaboration agreements with Takeda.

Drug candidates developed by the Company may require approvals or clearances from the U.S. Food and Drug Administration ("FDA") or international regulatory agencies prior to commercial sales. There can be no assurance that the Company's drug candidates will receive any of the required approvals or clearances. If the Company were to be denied approval or clearance or any such approval or clearance were to be delayed, it would have a material adverse impact on the Company.

# Recently Issued Accounting Pronouncements

In June 2016, the FASB issued ASU 2016-13, Financial Instruments – Credit Losses, which amends the guidance for measuring and recording credit losses on financial assets measured at amortized cost by replacing the incurred-loss model with an expected-loss model. Accordingly, these financial assets will be presented at the net amount expected to be collected. This new standard also requires that credit losses related to available-for-sale debt securities be recorded as an allowance through net income rather than by reducing the carrying amount under the current, other-than-temporary-impairment model. The new standard is effective for interim and annual periods beginning on January 1, 2020, but may be adopted earlier. With certain exceptions, adjustments are to be applied

using a modified-retrospective approach by reflecting adjustments through a cumulative-effect impact on retained earnings as of the beginning of the fiscal year of adoption. The Company is currently evaluating the impact of the adoption of this standard on its consolidated financial statements.

In November 2018, the FASB issued ASU 2018-18, Collaborative Arrangements (Topic 808): Clarifying the Interaction between Topic 808 and Topic 606, which clarifies that certain transactions between participants in a collaborative arrangement should be accounted for under ASC Topic 606 when the counterparty is a customer. In addition, Topic 808 precludes an entity from presenting consideration from a transaction in a collaborative arrangement as revenue from contracts with customers if the counterparty is not a customer for that transaction. This guidance will be effective for the Company beginning January 1, 2020. The Company is currently evaluating the impact of the adoption of this standard on its consolidated financial statements.

# NOTE 2 — NET LOSS PER COMMON SHARE

Basic net loss per common share is computed by dividing net loss by the weighted-average number of common shares outstanding during the period. Diluted net loss per share is computed by giving effect to all potential dilutive common shares, including outstanding options and warrants. The following is the calculation of basic and diluted net loss per share (in thousands, except share and per share data):

	Thi	ee Months Er March 31,	nded
	2019		2018
Numerator:			
Net loss attributable to common shareholders	\$ 6,	168 \$	8,714
Denominator:			
Weighted average common shares outstanding - basic and diluted	36,738,	993	26,989,693
Net loss per share attributable to common shareholders:			
Basic and diluted	\$	0.17 \$	0.32

The following outstanding warrants and options were excluded from the computation of diluted net loss per share for the periods presented because including them would have had an antidilutive effect (in thousands):

	Three Months March 3	
	2019	2018
Shares issuable upon exercise of warrants	3,522	3,522
Shares issuable upon exercise of stock options	5,295	2.880

# NOTE 3 — RESEARCH AND DEVELOPMENT AGREEMENTS

# Disaggregated Research and Development Revenue

Research and Development revenue is attributable to regions based on the location of our collaboration partner's parent company headquarters. Research and Development revenues disaggregated by location were as follows (in thousands):

	Three Mont Marcl	d
	2019	2018
Japan	\$ 6,413	\$ 163
United States	_	68
Total Research and Development Revenue	\$ 6,413	\$ 231

Related Party Collaboration Agreement - Takeda Pharmaceuticals, Inc.

Research and development revenue from related party relates to revenue from research and development agreements with Takeda Pharmaceuticals, Inc ("Takeda") and were as follows (in thousands):

Three Months Ended

	March 31,			
		2019		2018
Takeda Collaboration Agreement	\$	_	\$	11
Takeda Individual Project Agreement		54		_
Takeda Development and License Agreement		6,114		_
Takeda Multi-Target Agreement		245		152
Total Research and Development Revenue	\$	6,413	\$	163

Deferred revenue and accounts receivable balances from the research and development agreements with Takeda were as follows (in thousands):

	March 31	March 31, 2019 December 31		31, 2018
Assets				
Unbilled revenue	\$	295		240
Liabilities				
Deferred revenue, current		19,307		26,231
Deferred revenue, non-current		2,065		2,670
Total deferred revenue	\$	21,372	\$	28,901

Takeda Collaboration Agreement

In October 2016, Private Molecular entered into a collaboration and option agreement (the "Takeda Collaboration Agreement") with Millennium Pharmaceuticals, Inc., a wholly owned subsidiary of Takeda, to discover and develop CD38-targeting engineered toxin bodies ("ETBs"), which includes MT-4019 for evaluation by Takeda. Under the terms of the Takeda Collaboration Agreement, Molecular is responsible for providing to Takeda (i) new ETBs generated using Takeda's proprietary fully human antibodies targeting CD38 and (ii) MT-4019 for in vitro and in vivo pharmacological and anti-tumor efficacy evaluations. Molecular granted Takeda (1) a background IP license during the term of the Takeda Collaboration Agreement, and (2) an exclusive option during the term of the Takeda Collaboration Agreement and for a period of thirty days thereafter, to negotiate and obtain an exclusive worldwide license to develop and commercialize any ETB that may result from this collaboration, including MT-4019.

The Company has received payments of \$2.0 million in technology access fees and cost reimbursement associated with the Company's performance obligations under the agreement.

The Company determined that the promised goods and services under the Takeda Collaboration Agreement were the background IP license, as well as the research and development services. The Company determined that there was one performance obligation, since the background IP and manufacturing were not distinct from the research and development services. Revenues are recognized over the period that the research and development services occur. The Company also concluded that, since the option for the exclusive license is deemed to be at fair value that the option does not provide the customer with a material right, and should be accounted for if and when the option is exercised. All research and development services were performed as of December 31, 2018.

During the three months ended March 31, 2019 and 2018, the Company recorded research and development revenue from Takeda of \$0 and \$11,000, respectively, under the Takeda Collaboration Agreement. This revenue is deemed to be revenue from a related party (as discussed further in Note 4, Related Party Transactions).

# Takeda Individual Project Agreement

In connection with the Takeda Collaboration Agreement, the Company entered into an Individual Project Agreement (the "Takeda Individual Project Agreement") with Takeda in June 2018, that was subsequently amended in July 2018. Under the Takeda Individual Project Agreement, the Company is responsible to perform certain research and development services relating to Chemistry, Manufacturing, and Controls ("CMC") work for three potential lead ETBs targeting CD38. In consideration of these services, the Company will receive up to \$2.2 million in compensation that includes an increase in transaction consideration of \$1.1 million as a result of the amendment to the Takeda Individual Project Agreement in July 2018.

During the three months ended March 31, 2019, the Company recognized research and development revenue from Takeda of \$54,000 under the Takeda Individual Project Agreement. No revenue was recognized during the three months ended March 31, 2018 since the agreement was not in place.

Takeda Development and License Agreement

On September 18, 2018, the Company entered into a Development and License Agreement with Takeda ("Takeda Development and License Agreement") for the development and commercialization of products incorporating or comprised of one or more CD38 SLT-A fusion proteins ("Licensed Products") for the treatment of patients with diseases such as multiple myeloma.

Pursuant the Takeda Development and License Agreement Takeda made an upfront payment of \$30.0 million to the Company in October 2018.

The Takeda Development and License Agreement also provides for development costs to be shared equally between the Company and Takeda during the Early Stage Development Period. The Company has an option to opt into co-development after the Early Stage Development, that would make the Company eligible to potentially receive higher milestone payments and a higher royalty percentage.

In addition to the upfront fee, if the Company exercises its co-development option and funds its share of development costs, it is eligible to receive pre-clinical and clinical development milestone payments of up to \$307.5 million, upon the achievement of certain development milestones and regulatory approvals; and sales milestone payments of up to \$325.0 million, upon the achievement of certain sales milestone events. If the Company does not exercise its co-development option, it is eligible to receive development milestone payments of up to \$162.5 million upon the achievement of certain development milestones and regulatory approvals; and sales milestone payments of up to \$175.0 million upon the achievement of certain sales milestone events. The Company will also be entitled to receive tiered royalties, subject to certain reductions, as percentages of annual aggregate net sales, if any, of Licensed Products. The royalty percentages would range from low double-digits to low twenties if the Company exercises its option to co-develop, and from high-single digits to low teens if the Company does not exercise its option to co-develop.

The Company identified one performance obligation at the inception of the Takeda Development and License Agreement, the research and development services for the CD38 ETBs, including manufacturing. The Company determined that research, development and commercialization license and the participation in the committee meetings are not distinct from the research and development services and therefore those promised services were combined into one combined performance obligation.

The total transaction price of \$29.3 million, consisting of the (1) \$30.0 million upfront payment, (2) a \$10.0 million development milestone payment that is deemed probable of being achieved, (3) minus \$10.7 million in expected co-share payment payable to Takeda during Early Stage Development. The expected co-share payment is considered variable consideration, and the Company applied a constraint using the expected value method. Significant judgement was involved in determining transaction consideration, including the determination of the variable consideration, including the constraint on consideration.

The Company determined that the initial \$10.0 million potential development milestone payment under the Takeda Development and License Agreement is probable of being achieved. Therefore, this payment was included in the transaction consideration. As of March 31, 2019, the other potential development milestones and sales milestones are not currently deemed probable of being achieved, as they are dependent on factors outside the Company's control. Therefore, these future development milestones and sales-based milestone payments have been fully constrained and are not included in the transaction price as of March 31, 2019.

The Company recognizes revenue using a cost-based input measure. In applying the cost-based input method of revenue recognition, the Company used actual costs incurred relative to budgeted costs expected to be incurred for the combined performance obligation. These costs consist primarily of internal employee efforts and third-party contract costs. Revenue is recognized based on actual costs incurred as a percentage of total budgeted costs as the Company completes its performance obligation over the estimated service period.

The Company recognized revenue of \$6.1 million during the three months ended March 31, 2019 related to the Takeda Development and License Agreement. During the three months ended March 31, 2018, the Company recorded no research and development revenue under the Takeda Development and License Agreement, since the agreement was not in place until September 18, 2018. As of March 31, 2019 and December 31, 2018, deferred revenue related to the performance obligation was \$17.5 million and \$24.8 million, respectively.

# Takeda Multi-Target Agreement

In June 2017, Private Molecular entered into a Multi-Target Collaboration and License Agreement with Takeda ("Takeda Multi-Target Agreement") in which Molecular agreed to collaborate with Takeda to identify and generate ETBs, against two targets designated by Takeda. Takeda designated certain targets of interest as the focus of the research. Each party granted to the other nonexclusive rights in its intellectual property for purposes of the conduct of the research, and Private Molecular agreed to work exclusively with Takeda with respect to the designated targets.

Under the Takeda Multi-Target Agreement, Takeda has an option during an option period to obtain an exclusive license under the Company's intellectual property to develop, manufacture, commercialize and otherwise exploit ETBs against the designated targets. The option period for each target ends three months after the completion of the evaluation of such designated target. Under the Takeda Multi-Target Agreement, both parties have the right to terminate the agreement, with a specified notice period.

The Company received an upfront fee of \$1.0 million and an additional \$2.0 million following the designation of each of the two targets in December 2017. As of March 31, 2019, the Company has received \$5.0 million from Takeda pursuant to the Takeda Multi-Target Agreement.

The Company may also receive an additional \$25.0 million in aggregate through the exercise of the option to license ETBs. Additionally, the Company may also be entitled to receive clinical development milestone payments of up to approximately \$397.0 million, for achievement of development milestones and regulatory approval of collaboration products under the Takeda Multi-Target Agreement. The Company may also be entitled to receive commercial milestone payments of up to \$150.0 million, for achievement of pre-specified sales milestones related to net sales of all collaboration products under the Takeda Multi-Target Agreement. The Company is also entitled to tiered royalty payments of a mid-single to low-double digit percentage of net sales of any licensed ETBs, subject to certain reductions. Finally, the Company is entitled to receive up to \$10.0 million in certain contingency fees.

The Takeda Multi-Target Agreement will expire on the expiration of the option period (within three months after the completion of the evaluation of each designated target) for the designated targets if Takeda does not exercise its options, or, following exercise of the option, on the later of the expiration of patent rights claiming the licensed ETB or ten years from first commercial sale of a licensed ETB. The Takeda Multi-Target Agreement may be sooner terminated by Takeda for convenience or upon a material change of control, or by either party for an uncured material breach of the agreement.

The Company evaluated the contract termination clause and concluded that it was a non-substantive termination provision. As such, an initial contract term was defined as the length of the termination notice period, with a deemed renewal option to continue the research and development services over the remainder of the contract term as a material right.

The Company determined that the promised goods and services under the Takeda Multi-Target Agreement were the background IP license, the research and development services, and manufacturing during the initial contract period; and a renewal option to continue the research and development services. The Company determined that there were two performance obligations; research and development services, and the renewal options. Since the background IP and manufacturing were not distinct from the research and development services, they were deemed to be one performance obligation. Transaction consideration was allocated to each of the performance obligation and revenues are recognized over the period that the research and development services occur. The Company also concluded that, since the option for the exclusive license is deemed to be at fair value that the option does not provide the customer with a material right, and should be accounted for if and when the option is exercised.

In connection with the execution of the Takeda Multi-Target Agreement, Takeda also entered into a stock purchase agreement with the Company ("Takeda Stock Purchase Agreement"), pursuant to which Takeda purchased approximately \$20.0 million of shares of the Company's common stock following the Merger. See Note 10, Stockholders' Equity, for further details. Since the Takeda Stock Purchase Agreement was dependent on contingent events, the Company determined that the transaction was constrained, and not a performance obligation under the Takeda Multi-Target Agreement. The Company accounted for the stock purchase agreement in August 2017, once the constraints were removed, and recorded the \$20.0 million in equity upon the settlement of the stock purchase transaction.

During the three months ended March 31, 2019 and March 31, 2018, the Company recorded \$245,000 and \$152,000, respectively, in research and development revenue under the Multi-Target Takeda Agreement. As of March 31, 2019, and December 31, 2018, deferred revenue related to the performance obligation was \$3.9 million and \$4.1 million, respectively.

# Other Collaboration Agreements

In September 2016, Private Molecular entered into a collaboration agreement with an undisclosed pharmaceutical company ("Other Collaboration Agreement") to generate ETBs, for evaluation for consideration of \$500,000. Under the terms of the Other Collaboration Agreement, Private Molecular was responsible for providing to the customer (i) new ETBs generated using the customer's materials and (ii) ETB study molecules for testing and evaluation.

The customer also exercised an option under the Other Collaboration Agreement in November 2017, for the manufacture of additional quantities of ETB molecules, for additional consideration of \$250,000, upon delivery and acceptance of the additional materials.

The Company determined that at the inception of the agreement, the promised goods and services under the Other Collaboration Agreement were, the research and development services, and manufacturing. The Company determined that there was one performance obligation, since the manufacturing was not distinct from the research and development services. Revenues are recognized over the period that the research and development services occur using an input method to measure progress towards satisfaction of the performance obligation. The option for additional ETB molecules was determined to be at fair value and was accounted for once the option was exercised. All research and development services were performed as of March 31, 2019.

During the three months ended March 31, 2019 and 2018, the Company recorded \$0 and \$68,000 in research and development revenue under the Other Collaboration Agreement, respectively.

#### Grant Agreements

Grant revenue relates to funds from a state grant funding program, which are conditional cost reimbursement grants, and revenue is recognized as allowable costs are paid.

In November 2011, Private Molecular was awarded a \$10.6 million product development grant from the Cancer Prevention Research Institute of Texas ("CPRIT") for its CD20-targeting ETB MT-3724. To date, Private Molecular has received \$9.5 million in grant funds.

On September 18, 2018, the Company entered into a grant agreement with CPRIT (the "CPRIT Agreement"), in connection with a grant of approximately\$15.2 million awarded by CPRIT to the Company to fund research of a cancer therapy involving a CD38 targeting ETB Pursuant to the CPRIT Agreement, the Company may also use such funds to develop a replacement CD38 targeting ETB, with or without a partner.

During the three months ended March 31, 2019 and 2018, the Company recorded \$595,000 and \$251,000 in grant revenue under these awards, respectively. Amounts collected in excess of revenue recognized are recorded as deferred revenue. Amounts submitted for reimbursement in excess of amounts received are recorded as receivables in other current assets. As of March 31, 2019, and December 31, 2018, we had \$4.1 million recorded in other current assets.

# NOTE 4 — RELATED PARTY TRANSACTIONS

Takeda Collaboration and Stock Purchase

In connection with the Takeda Stock Purchase Agreement described in Note 3, Research and Development Collaboration Agreements, Takeda became a related party, following the stock purchase. Refer to Note 3, Research and Development Collaboration Agreements, for more details about the Takeda Collaboration Agreement, the Takeda Multi-Target Agreement and the Takeda Development and License Agreement. Refer to Note 10, Stockholders' Equity, for more detail about the Takeda Stock Purchase Agreement. Jonathan Lanfear, a director of the Company, is the Vice President and Global Head of Oncology and Neuroscience Business Development for Takeda.

Private Placement

Immediately following the Private Placement described in Note 10, Stockholders' Equity below, Longitude Venture Partner III, L.P. ("Longitude") and CDK Associates, L.L.C. ("CDK") became related parties, with Longitude and CDK beneficially owning 15.3% and 4.99% of the Company, respectively, following investments of \$20.0 million and \$7.0 million, respectively. Scott Morenstein, a director of the Company is a Managing Director of Caxton Alternative Management LP, the investment manager of CDK. David Hirsch, a director of the Company, is a member of Longitude Capital Partners III, LLC, the general partner of Longitude. Furthermore, Kevin Lalande, a director of the Company is affiliated with Sante Health Ventures I, L.P. and Sante Heath Ventures Annex Fund, L.P., which are stockholders of the Company and were investors in the Concurrent Financing.

Public Offering

Following the Public Offering described in Note 10, Stockholders' Equity below, BVF Partners L.P. ("BVF") and Perceptive Advisors LLC ("Perceptive") owned 7.6% and 5.9% of the Company, following investments of \$15.3 million and \$11.9 million, respectively.

Neither BVF nor Perceptive is affiliated with any director or executive officer of the Company. Longitude Venture Partners III, L.P. and CDK, current stockholders of the Company, purchased 365,000 and 545,454 shares of common stock, respectively, in the Public Offering at the public offering price. Following the Public Offering, Longitude and CDK beneficially owned 12.33% and 4.96% of the Company, respectively. Scott Morenstein, a director of the Company is a Managing Director of Caxton Alternative Management LP, the investment manager of CDK. David Hirsch, a director of the Company, is a member of Longitude Capital Partners III, LLC, the general partner of Longitude.

# NOTE 5 —MARKETABLE SECURITIES AND FAIR VALUE MEASUREMENTS

The Company accounts for its marketable securities in accordance with ASC 820 "Fair Value Measurements and Disclosures." ASC 820 defines fair value, establishes a framework for measuring fair value in U.S. GAAP, and expands disclosures about fair value measurements. ASC 820 defines fair value as the exchange price 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. ASC 820 also establishes a fair value hierarchy which requires an entity to maximize the use of observable inputs and minimize the use of unobservable inputs when measuring fair value. The standard describes three levels of inputs that may be used to measure fair value:

Level 1—Quoted prices in active markets for identical assets or liabilities.

Level 2—Observable inputs other than Level 1 prices such as quoted prices for similar assets or liabilities, quoted prices in markets that are not active, or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the assets or liabilities.

Level 3—Unobservable inputs that are supported by little or no market activity and that are significant to the fair value of the assets or liabilities.

The Company utilizes the market approach to measure fair value for its financial assets and liabilities. The market approach uses prices and other relevant information generated by market transactions involving identical or comparable assets or liabilities. For Level 2 securities that have market prices from multiples sources, a "consensus price" or a weighted average price for each of these securities can be derived from a distribution-curve-based algorithm which includes market prices obtained from a variety of industrial standard data providers (e.g. Bloomberg), security master files from large financial institutions, and other third-party sources. Level 2 securities with short maturities and infrequent secondary market trades are typically priced using mathematical calculations adjusted for observable inputs when available.

The following table sets forth the Company's financial assets (cash equivalents and marketable securities) at fair value on a recurring basis as of March 31, 2019 and December 31, 2018 (in thousands):

			Basis	of Fair	r Value Measur	ements			
	 Value as of th 31, 2019		Level 1		Level 1 Level 2		<u></u>		Level 3
Money market funds	\$ 20,638	\$	20,638	\$		\$			
Commercial paper	44,525		_		44,525		_		
United States Treasury Bills	13,159		_		13,159		_		
Corporate bonds	4,240		_		4,240				
Total	\$ 82,562	\$	20,638	\$	61,924	\$			
Amounts included in:	 								
Cash and cash equivalents	\$ 36,842								
Marketable securities, current	45,720								
Total cash equivalents and marketable securities	\$ 82,562								

		Basis of Fair Value Measurements				
	Value as of ber 31, 2018	Level 1		Level 2	I	Level 3
Money market funds	\$ 82,843	\$ 82,843	\$		\$	
Commercial paper	12,825	_		12,825		_
Total	\$ 95,668	\$ 82,843	\$	12,825	\$	_
Amounts included in:	 					
Cash and cash equivalents	\$ 85,434					
Marketable securities, current	10,234					
Total cash equivalents and marketable securities	\$ 95,668					

The Company invests in highly-liquid, investment-grade securities. The following is a summary of the Company's available-for-sale securities at March 31, 2019 and December 31, 2018 (in thousands):

As of March 31, 2019	Cost Basis	Unrealized Gain		Unrealized Loss	Fair Value	Maturity Dates
Cash equivalents - money market funds, commercial paper and corporate bonds	\$ 36,842	\$ 	\$	_	\$ 36,842	
Marketable securities, current - commercial paper, Treasury bills and corporate bonds	\$ 45,720	\$ _	\$	_	\$ 45,720	7/2019 - 12/2019
As of December 31, 2018	Cost Basis	Unrealized Gain		Unrealized Loss	Fair Value	Maturity Dates
Cash equivalents - money market funds and commercial paper	\$ 85,434	\$ _	. :	S —	\$ 85,434	
Marketable securities, current - commercial paper	\$ 10,234	\$ ; —	. ;	S —	\$ 10,234	1/2019 - 9/2019

The following table sets forth the Company's financial liabilities measured at fair value on a recurring basis as of the date indicated below:

		Basis of Fair Value Measurements			
	Fair Value as of March 31, 2019	Level 1	Level 2	Level 3	
2017 Warrants	7			7	
	Fair Value as of	Basis of	Fair Value Measurer	nents	
	December 31, 2018	Level 1	Level 2	Level 3	
2017 Warrants	3			3	

The Company determined the fair value of the liability associated with its2017 Warrants to purchase in aggregate 377,273 shares of outstanding common stock using a Black-Scholes Model. See detailed discussion in Note 10, Stockholders' Equity.

As of March 31, 2019 and December 31, 2018 the fair value of the long-term debt approximated its carrying value of \$3.2 million and \$3.3 million, respectively, because it is carried at a market observable interest rate, which are considered Level 2.

# NOTE 6 — BALANCE SHEET COMPONENTS

Accrued liabilities were comprised of the following (in thousands):

	arch 31, 2019	Dec	ember 31, 2018
Accrued liabilities:			
General and administrative	\$ 440	\$	297
Clinical trial related costs	889		598
Non-clinical research and manufacturing operations	3,788		2,644
401(k) contributions payable	19		_
Payroll related	828		1,787
Other accrued expenses	 15		31
Total accrued liabilities	\$ 5,979	\$	5,357

Deferred revenue was comprised of the following:

	March 31, 2019	December 31, 2018
Deferred revenue:	 _	
Grant agreements	\$ _	\$ _
Research and development agreements	 21,372	 28,901
Total deferred revenue	\$ 21,372	\$ 28,901

Other assets include \$3.0 million of restricted cash as of March 31, 2019.

# NOTE 7 — BORROWING ARRANGEMENTS

# Perceptive Credit Facility

On February 27, 2018, the Company entered into a term loan facility with Perceptive Credit Holdings II, LP ("Perceptive") in the amount of \$10.0 million (the "Perceptive Credit Facility"). The Perceptive Credit Facility consists of a \$5.0 million term loan, which was drawn on the effective date of the Perceptive Credit Facility, and an additional \$5.0 million term loan to be drawn down at a future date. The Company used a portion of the proceeds from the Perceptive Credit Facility to pay off the existing debt facility with SVB. Borrowings under the Perceptive Credit Facility are secured by all of the property and assets of the Company. The principal on the facility accrues interest at an annual rate equal to a three-month LIBOR plus the Applicable Margin. The Applicable Margin is 11.00%. Upon the occurrence, and during the continuance, of an event of default, the Applicable Margin, defined above, will be increased by 4.00% per annum. The interest rate at March 31, 2019 was 13.8%. Payments for the first 24 months are interest only and are paid quarterly. After the second anniversary of the closing date of the Perceptive Credit Facility, principal payments of \$200,000 are due each calendar quarter, with a final payment of \$3.4 million due on February 27, 2022. This term loan facility matures on February 27, 2022 and includes both financial and non-financial covenants, including a minimum cash balance requirement. The Company is required to pay an exit fee of \$100,000 on a pro rata basis on the maturity date or the earlier date of repayment of the term loans in full. The exit fee is being accreted to interest expense over the term of the Perceptive Credit Facility using the effective interest method.

For the three months ended March 31, 2019, the Company recorded \$172,000 of interest expense and \$74,000 of amortization of debt discount related to the Perceptive Credit Facility. For the three months ended March 31, 2018, the Company recorded \$59,000 of interest expense and \$54,000 of amortization of debt discount related to the Perceptive Credit Facility.

In connection with the Perceptive Credit Facility, on February 27, 2018 the Company issued Perceptive a warrant to purchase 190,000 shares of the Company's common stock. The warrant is exercisable for a period of seven years from the date of issuance at an exercise price per share of \$9.5792, subject to certain adjustments as specified in the Warrant. See Note 10, Stockholders' Equity for further discussion of the warrant. The fair value of the warrant of \$1.5 million was recorded as a debt discount, which is being amortized to interest expense over the term of the Perceptive Credit Facility using the effective interest method

As of March 31, 2019 and December 31, 2018 the Perceptive Credit Facility principal balance was \$5.0 million and \$5.0 million, respectively. As of March 31, 2019, the Company was in compliance with the non-financial covenants of the Perceptive Credit Facility.

Future required principal and final payments on the Perceptive Credit Facility were as follows as of March 31, 2019:

2019 (remaining)	\$ —
2020	800
2021	800
2022	3,500
2023	_
Total	5,100
Debt discount and deferred finance costs	(1,741)
Total	3,359
Short-term portion	(200)
Total	\$ 3,159

# NOTE 8 - LEASES

On January 1, 2019, we adopted a new accounting standard that amends the guidance for the accounting and reporting of leases. Required disclosures have been made on a modified retrospective basis in accordance with the guidance of the standard. See Note 1, Organization and Summary of Significant Accounting Policies under the heading Significant accounting policies.

We have operating leases for administrative offices and R&D facilities, and certain finance leases for equipment. Our operating leases have remaining terms of less than one year to ten years, and our finance leases have remaining terms of less than one year to two years. Leases with an initial term of 12 months or less will not be recorded on the balance sheet as operating leases or finance leases, and we will recognize lease expense for these leases on a straight-line basis over the lease term. For lease excommencing in 2019 and later, we account for lease components (e.g., fixed payments including rent, real estate taxes, and insurance costs) with non-lease components (e.g. common area maintenance costs). Certain leases include options to renew, with renewal terms that can extend the lease term from one to five years. The exercise of lease renewal options for our existing leases is at our sole discretion and not included in the measurement of lease liability and ROU asset as they are not reasonably certain to be exercised. Certain finance leases also include options to purchase the leased equipment. The depreciable life of assets and leasehold improvements are limited by the expected lease term, unless there is a transfer of title or purchase option reasonably certain of exercise. Our leases do not contain any residual value guarantees or material restrictive covenants.

As a result of applying the modified retrospective method to adopt the lease guidance, the following adjustments were made to accounts on the Condensed Consolidated Balance Sheet as of January 1, 2019 (in thousands):

Balance Sheet	December 31, 2018	Effect of adoption of ASC 842	January 1, 2019
Assets			
Operating lease right-of-use assets, non-current	\$ -	\$ 4,180	\$ 4,180
Total assets		4,180	4,180
Liabilities			
Operating lease liability, current	-	976	976
Deferred Rent1	525	(525)	-
Operating Lease Liability, long term portion	<u> </u>	3,729	3,729
Total liabilities	525	4,180	4,705

1. Included in Other liabilities on the balance sheet.

In January 2019, we entered into a lease agreement for an additional 57,000 square feet of administrative office and R&D space in Austin, Texas. The lease commenced March 2019 and is set expire in August 2028 and does not contain an option to renew.

The tables below include the impact of this newly entered lease. Upon the commencement of the lease, we recorded an operating lease righ-of-use asset and a lease liability of \$7.2 million and \$7.2 million, respectively.

As of March 31, 2019 we do not have any operating and finance leases that have not yet commenced.

The components of lease expense for the three months ended March 31, 2019, were as follows (in thousands):

		Months Ended March 31,	
	2	019	
Operating leases			
Operating lease cost	\$	402	
Variable lease expense		105	
Sublease rental income		(39)	
Total operating lease cost, net	\$	468	
Finance leases			
Amortization of right-of-use asset	\$	2	
Interest on lease liabilities		1	
Total finance lease cost	\$	3	

The following table summarizes the balance sheets classification of our leases as of March 31, 2019 (in thousands):

	 March 31,
	2019
Operating leases	
Operating lease right-of-use assets	\$ 11,131
Operating lease liabilities, Current <sup>1</sup>	\$ 965
Operating lease liabilities, Long-term	10,770
Total operating lease liabilities	\$ 11,735
Finance leases	
Property and equipment, at cost	\$ 57
Accumulated depreciation	 15
Property and equipment, net	\$ 42
Other current liabilities	\$ 31
Other liabilities	12
Total finance lease liabilities	\$ 43

# 1. Included in other liabilities

The following table represents information about our leases as of March 31, 2019:

Weighted average remaining lease term	
Operating leases	7.4 years
Finance leases	1.4 years
Weighted average discount rate	
Operating leases	6.74 %
Finance leases	7.08 %

Maturities of lease liabilities for the period were as follows (in thousands):

March 31, 2019	Operating Leases		Finance	e Leases
Lease payments				
2019 (remaining)1	\$	_	\$	24
2020		2,494		21
2021		2,566		_
2022		2,635		_
2023		1,961		_
Thereafter		7,236		_
Total lease payments		16,892		45
Less imputed interest		(4,203)		(2)
Total lease payments, net of interest	\$	12,689	\$	43

1. Maturities for operating lease liabilities in 2019 is less than tenant improvement allowances expected to be received.

Supplemental cash flow information for the three months ended March 31, 2019 were as follows (in thousands):

		Months Ended Iarch 31,
	2	019
Cash paid for amounts included in the measurement of lease liabilities:		
Operating cash flows from operating leases	\$	322
Operating cash flows from finance leases		1
Financing cash flows from finance leases		8
Right-of-use asset obtained in exchange for lease obligations:		
Operating leases		7,234
Finance leases		-

# NOTE 9 — COMMITMENTS AND CONTINGENCIES

The Company is obligated under operating lease agreements covering the Company's office facilities in Austin, Texas and Jersey City, New Jersey. Facilities expense under the operating leases was approximately \$402,000 and \$340,000 for the three months ended March 31, 2019 and 2018, respectively.

Future minimum payments due under the operating lease agreements at March 31, 2019 were as follows (in thousands):

2019 (remaining)	\$ 1,050
2020	2,494
2021	2,566
2022	2,635
2023	1,961
Thereafter	7,236
Total	\$ 17,942

# Contingencies

In the ordinary course of business, the Company may provide indemnifications of varying scope and terms to vendors, lessors, business partners and other parties with respect to certain matters, including, but not limited to, losses arising out of the Company's breach of such agreements, services to be provided by or on behalf of the Company, or from intellectual property infringement claims made by third parties. In addition, the Company has entered into indemnification agreements with its directors and certain of its officers and employees that will require the Company, among other things, to indemnify them against certain liabilities that may arise by reason of their status or service as directors, officers or employees. The Company maintains director and officer insurance, which may cover certain liabilities arising from its obligation to indemnify its directors and certain of its officers and employees, and former officers and directors in certain circumstances. The Company maintains product liability insurance and comprehensive general liability insurance, which may cover certain liabilities arising from its indemnification obligations. It is not possible to determine the maximum potential amount of exposure under these indemnification obligations due to the limited history of prior indemnification claims and the unique facts and circumstances involved in each particular indemnification obligation. Such indemnification obligations may not be subject to maximum loss clauses. Management is not currently aware of any matters that could have a material adverse effect on the financial position, results of operations or cash flows of the Company.

# NOTE 10 — STOCKHOLDERS' EQUITY

# Private Placement

On August 1, 2017, the Company entered into the a securities purchase agreement with Longitude Venture Partners III, L.P. and certain other accredited investors (the "Longitude Securities Purchase Agreement"), pursuant to which the Company sold an aggregate of 5,793,063 units (the "Units") accredited investors having an aggregate purchase price of \$40.0 million, each such Unit consisting of (i) one (1) share (the "Shares") of the Company's common stock and (ii) a warrant (the "Private Placement Warrants") to purchase 0.5 shares of the Company's common stock (the "Private Placement"). The Private Placement was pursuant to equity commitment letter agreements entered into by and between the Company and investors in March and June 2017. The purchase price per Unit was \$6.9048. The Warrants are exercisable for a period of seven years from the date of their issuance at a per-share exercise price of \$6.8423 (which exercise price shall be payable in cash or through a cashless exercise mechanic), subject to certain adjustments as specified in the Warrants. At March 31, 2019, there were warrants outstanding under the Longitude Securities Purchase Agreement to purchase 2,896,532 shares of common stock. At the time of issuance and as of March 31, 2019, the warrants met the requirements for equity classification under ASC 815, "Derivatives and Hedging" (ASC 815), and the value of these warrants is included in additional paid-in capital on the balance sheet. The Private Placement Warrants are exercisable upon issuance and expire August 1, 2024. The Company will continue to evaluate equity classification on a quarterly basis.

In December 2015, the Company entered into an agreement (the "Wedbush Agreement") with Wedbush Securities Inc. ("Wedbush"), which was subsequently amended in December of 2017, related to Wedbush's services associated with the equity financing under the Longitude Securities Purchase Agreement. As part of the Wedbush Agreement, the Company issued to Wedbush warrants to purchase 57,930 shares of the Company's common stock (the "Wedbush Warrants"). The Wedbush Warrants are exercisable for a period of seven years from the date of their issuance at a per-share exercise price of \$6.8423 (which exercise price shall be payable in cash or through a cashless exercise mechanic), subject to certain adjustments as specified in the Warrants. At March 31, 2019, there were warrants outstanding under the Wedbush Agreement to purchase 57,930 shares of common stock. At the time of issuance and as of March 31, 2019, the warrants met the requirements for equity classification under ASC 815, and the value of these warrants is included in additional paid-in capital on the balance sheet. The Wedbush Warrants are exercisable upon issuance and expire December 1, 2024. The Company will continue to evaluate equity classification on a quarterly basis.

# Subsequent Private Placement

In connection with the execution of the Takeda Multi-Target Agreement, Threshold and Private Molecular entered into the Takeda Stock Purchase Agreement. Pursuant to the Takeda Stock Purchase Agreement, following the Private Placement, Takeda purchased 2,922,993 shares of the Company's common stock, at a price per share of \$6.84, for an aggregate purchase price of \$20.0 million.

# Public offering

On September 25, 2018, the Company closed its underwrittenpublic offering (the "Public Offering") of 9,430,000 shares of its common stock, which included the exercise in full by the underwriters of their option to purchase 1,230,000 additional shares of common stock, at a price to the public of \$5.50 per share. The net proceeds to the Company from the offering, after deducting the underwriting discounts and commissions and offering expenses payable by the Company, were approximately \$48.1 million.

# Common Stock Warrant Liability Valuation

As of March 31, 2019, the Company had warrants outstanding to purchase 3,521,735 shares of the Company's common stock. The Company accounts for certain of its common stock warrants under guidance in ASC 480 that clarifies the determination of whether an instrument is classified as a liability or equity. The following table summarizes the Company's outstanding warrants as of March 31, 2019 and December 31, 2018 and the warrant activity during the three months ended March 31, 2019:

	Warrants Outstanding			Warrants Outstanding	Weigh	ted Average
	December 31, 2018	Issued	Exercised	March 31, 2019	Exer	cise Price
2017 Warrants	377,273			377,273	\$	39.82
2017 Private Placement Warrants	2,954,462	_	_	2,954,462	\$	6.84
2018 Warrants	190,000	_	_	190,000	\$	9.58
	3,521,735			3,521,735		

On August 1, 2017, the Company assumed the warrant liability of the predecessor Threshold Pharmaceuticals, Inc. ("Threshold"), as part of the merger with Threshold (the "Merger"), related to warrants to purchase 377,273 shares of the Company's common stock ("2017 Warrants"), with an exercise price of \$39.82 per share. Refer to the 2018 Annual Report on Form 10-K, for further detail about the Merger. Due to change in control provisions outside of the Company's control in these warrant agreements, the guidance requires the Company's outstanding warrants to be classified as liabilities and to be fair valued at each reporting period, with the changes in fair value recognized as change in fair value of warrant liabilities in the Company's consolidated statements of operations.

The following table is a reconciliation of the 2017 Warrant liability measured at fair value using level 3 inputs (in thousands):

	Liabilit	
Balance at December 31, 2018	\$	3
Change in fair value during the three months ended March 31, 2019		4
Balance at March 31, 2019	\$	7

The fair value of the 2017 Warrants on March 31, 2019 and December 31, 2018 was determined using a Black-Scholes model with the following key level 3 inputs:

	March 31, 2019	December 31, 2018
Risk-free interest rate	2.4 %	2.6 %
Expected life (in years)	0.90	1.1
Dividend yield	_	_
Volatility	80 %	77 %
Stock price	\$ 5.81	\$ 4.04

During the three months ended March 31, 2019 and 2018, the fair value of the 2017 Warrants increased by \$4,000 and decreased by \$614,000, respectively, and the change in fair value of warrant liabilities was recorded as noncash expense and income, respectively, in the Company's consolidated statement of operations and comprehensive loss.

On August 1, 2017, in conjunction with the Private Placement, the Company issued warrants to purchase 2,896,532 shares of the Company's common stock with an exercise price of \$6.84, the Private Placement Warrants as described above. The Private Placement warrants are classified as equity and were valued at \$16.3 million using the Black-Scholes model, and recorded in additional paid-in capital. The Black-Scholes inputs used were: expected dividend rate of 0%, expected volatility of 147%, risk free interest rate of 2.07%, and expected term of 7.0 years.

In December 2017, the Company issued warrants to purchase 57,930 shares of the Company's common stock with an exercise price of \$6.84, the Wedbush Warrants as described above. The Wedbush Warrants are classified as equity and recorded in additional paid-in capital; and were valued at \$0.4 million using the Black-Scholes model. The Black-Scholes inputs used were: expected dividend rate of 0%, expected volatility of 108%, risk free interest rate of 2.33%, and expected term of 7.0 years. The Wedbush Warrants together with the Private Placement Warrants are combined as "2017 Private Placement Warrants" in the table above.

On February 28, 2018, in connection with the Perceptive Credit Facility, the Company issued warrants to purchase 190,000 shares of the Company's common stock with an exercise price of \$9.58 (the "2018 Warrants"). The 2018 Warrants are exercisable for a period of seven years from the date of issuance, subject to certain adjustments as specified in the Warrants. The 2018 Warrants were classified as equity and recorded in additional paid-in capital; and were valued at \$1.5 million using the Black-Scholes model. The Black-Scholes inputs used were: expected dividend rate of 0%, expected volatility of 105%, risk free interest rate of 2.83%, and expected term of 7.0 years. See Note 7, Borrowing Arrangements, for further detail about the Perceptive Credit Facility.

# NOTE 11 — STOCK-BASED COMPENSATION

The Company recognizes stock-based compensation in accordance with ASC 718, "Compensation—Stock Compensation." Stock-based compensation expense, which consists of the compensation cost for employee stock options granted under the 2009 Stock Plan, as amended (the "2009 Stock Plan"), the Company's 2014 Equity Incentive Plan, as amended (the "2014 Equity Incentive Plan"), the Company's 2018 Equity Incentive Plan (the "2018 Equity Incentive Plan") and the value of options issued to non-employees for services rendered, was allocated to research and development and general and administrative expenses in the unaudited consolidated statements of operations. Stock-based compensation for the three months ended March 31, 2019 and 2018 were (in thousands):

	Three Months Ended March 31,			
	2019 2018			
Research and development	\$ 453	\$	180	
General and administrative	 908		463	
Total stock-based compensation	\$ 1,361	\$	643	

As of March 31, 2019, the total unrecognized compensation cost related to unvested stock-based awards granted to employees under the Company's equity incentive plans was approximately \$16.6 million. This cost will be recorded as compensation expense on a ratable basis over the remaining weighted average requisite service period of approximately 3.1 years.

# Valuation Assumptions

The Company estimated the fair value of stock options granted using the Black-Scholes option-pricing formula and a single option award approach. This fair value is being amortized ratably over the requisite service periods of the awards, which is generally the vesting period. The fair value of employee stock options was estimated using the following weighted-average assumptions for the three months ended March 31, 2019 and 2018:

	Thr	Three Months Ended March 31,		
	2019	2019 20		
Employee Stock Options:				
Risk-free interest rate	2	2.59 %	2.68 %	
Expected term (in years)	6	5.08	6.02	
Dividend yield		_	_	
Volatility		109 %	108 %	
Weighted-average fair value of stock options granted	\$ 3	3.93 \$	8.85	

To determine the expected term of the Company's employee stock options granted, the Company utilized the simplified approach as defined by SEC Staff Accounting Bulletin No. 107, "Share-Based Payment" ("SAB 107"). To determine the risk-free interest rate, the Company utilized an average interest rate based on U.S. Treasury instruments with a term consistent with the expected term of the Company's stock-based awards. To determine the expected stock price volatility for the Company's stock-based awards, the Company utilized the historical volatility of the Company's common stock. The fair value of all the Company's stock-based awards assumes no dividends as the Company does not anticipate paying cash dividends on its common stock.

# **Equity Incentive Plans**

The Company's equity incentive plans include the 2009 Stock Plan, the 2014 Equity Incentive Plan and the 2018 Equity Incentive Plan. No additional shares will be issued under the 2009 Stock Plan and the 2014 Equity Incentive Plan.

The following table summarizes stock option activity under the Company's equity incentive plans:

Options	Number of Shares	Weighted- Average Exercise Price	Weighted- Average Remaining Contractual Term	In	gregate trinsic in millions)
Outstanding at December 31, 2018	4,002,999	\$ 10.43	6.4	\$	1.5
Granted	1,341,850	\$ 4.71	_		_
Exercised	(20,639)	\$ 1.85	_		_
Forfeitures	(29,525)	\$ 7.39	_		_
Outstanding at March 31, 2019	5,294,685	\$ 9.03	7.3	\$	3.9
Exercisable at March 31, 2019	1,720,852	\$ 14.75	4.0	\$	2.3

The total intrinsic value of stock options exercised during the three months ended March 31, 2019 and 2018, was \$75,000 and \$1.6 million, respectively, as determined at the date of the option exercise. Cash received from stock option exercises was \$38,000 and \$148,000 for the three months ended March 31, 2019 and 2018, respectively. The Company issues new shares of common stock upon exercise of options. In connection with these exercises, there was no tax benefit realized by the Company due to the Company's current loss position.

## I TEM 2. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

This Management's Discussion and Analysis of Financial Condition and Results of Operations should be read in conjunction with the unaudited financial information and the notes thereto included in this Quarterly Report on Form 10-Q and the audited financial information and the notes thereto included in the Annual Report on Form 10-K for the year ended December 31, 2018.

Certain matters discussed in this Quarterly Report on Form 10-Q may be deemed to be forward-looking statements that involve risks and uncertainties. We make such forward-looking statements pursuant to the safe harbor provisions of the Private Securities Litigation Reform Act of 1995 and other federal securities laws. In this Quarterly Report on Form 10-Q, words such as "may," "will," "anticipate," "estimate," "expects," "projects," "intends," "plans," "believes" and similar expressions (as well as other words or expressions referencing future events, conditions or circumstances) are intended to identify forward-looking statements.

Our actual results and the timing of certain events may differ materially from the results discussed, projected, anticipated, or indicated in any forward-looking statements. We caution you that forward-looking statements are not guarantees of future performance and that our actual results of operations, financial condition and liquidity, and the development of the industry in which we operate may differ materially from the forward-looking statements contained in this Quarterly Report. In addition, even if our results of operations, financial condition and liquidity, and the development of the industry in which we operate are consistent with the forward-looking statements contained in this Quarterly Report, they may not be predictive of results or developments in future periods.

The following information and any forward-looking statements should be considered in light of factors discussed elsewhere in this Quarterly Report on Form 10-Q and under "Risk Factors" in Part I, Item 1A of our Annual Report on Form 10-K for the year ended December 31, 2018.

We caution readers not to place undue reliance on any forward-looking statements made by us, which speak only as of the date they are made. We disclaim any obligation, except as specifically required by law and the rules of the SEC, to publicly update or revise any such statements to reflect any change in our expectations or in events, conditions or circumstances on which any such statements may be based, or that may affect the likelihood that actual results will differ from those set forth in the forward-looking statements.

You should read the following discussion and analysis of financial condition and results of operations together with Part I, Item 1, "Financial Statements," which includes our financial statements and related notes, elsewhere in this Quarterly Report on Form 10-Q.

#### Overview

We are a clinical-stage oncology company focused on the discovery and development of engineered toxin bodies, or ETBs, which are differentiated, targeted, biologic therapeutics for cancer. We believe ETBs offer a differentiated mechanism of action that may address some of the limitations associated with currently available cancer therapeutics. ETBs utilize a genetically engineered form of Shiga-like Toxin A subunit, or SLTA, a ribosome inactivating bacterial protein that can be targeted to specifically destroy cancer cells.

# **Business**

We are a clinical-stage oncology company focused on the discovery and development of differentiated, targeted, biologic therapeutics for cancer. We utilize our proprietary biologic drug platform to design and generate ETBs, which we believe provides a differentiated mechanism of action that may be beneficial in patients resistant to currently available cancer therapeutics. ETBs use a genetically engineered version of the SLTA. In its wild-type form, SLT is thought to induce its own entry into a cell when proximal to the cell surface membrane, self-route to the cytosol, and enzymatically and irreversibly shut down protein synthesis via ribosome inactivation. SLTA is normally coupled to its cognate Shiga-like Toxin B subunit, or SLTB, to target the CD77 cell surface marker, a non-internalizing glycosphingolipid. In our scaffold, a genetically engineered SLTA subunit with no cognate SLTB component is genetically fused to antibody domains or fragments specific to a cancer target, resulting in a biologic therapeutic that can identify the particular target and specifically kill the cancer cell. The antibody domains may be substituted with other antibody domains having different specificities to allow for the rapid development of new drugs to selected targets in cancer.

ETBs combine the specificity of an antibody with SLTA's potent mechanism of cell destruction. Based on the disease setting, we have created ETBs that have reduced immunogenicity and are capable of delivering additional payloads into a target cell. Immunogenicity is the ability of a foreign substance to provoke an immune response in a host. ETBs have relatively predictable pharmacokinetic, or PK, and absorption, distribution, metabolism and excretion, or ADME, profiles and can be rapidly screened for

desired activity in robust cell-based and animal-model assays. Because SLTA can induce internalization against non- and poorly-internalizing receptors, the universe of targets for ETBs should be substantially larger than that seen with antibody drug conjugates, or ADCs, which are not likely to be effective if the target does not readily internalize the ADC payload.

ETBs have a differentiated mechanism of cell-kill in cancer therapeutics (the inhibition of protein synthesis via ribosome destruction), and we have preclinical and clinical data demonstrating the utility of these molecules in chemotherapy-refractory cancers. ETBs have shown good safety data in multiple animal models as well as in our clinical studies to date. We believe the target specificity of ETBs, their ability to self-internalize, their potent and differentiated mechanism of cell kill and their safety profile provide opportunities for the clinical development of these agents to address multiple cancer types.

Our initial approach to drug development in oncology involves the selection of lead compounds to validated targets in cancer. We have developed ETBs for various targets, including CD20, CD38, HER2, and PD-L1. CD20 is central to B cell malignancies and is clinically validated as a target for the treatment of lymphomas and autoimmune disease. CD38 has been validated as a meaningful clinical target in the treatment of multiple myeloma. PD-L1 is central to immune checkpoint pathways and is a target expressed in a variety of solid tumor cancers. Our lead compound, MT-3724, is an ETB that recognizes CD20, a B cell marker and is currently in multiple Phase II studies. The dose escalation portion of its first Phase I clinical trial has been completed for MT-3724 and was followed by the initiation of a Phase Ib expansion cohort, which was initiated in the fourth quarter of 2017. In the first quarter of 2019, we initiated a Phase II monotherapy study with MT-3724, which has the potential to be a pivotal study. We have also initiated a Phase II combination study with MT-3724 and Revlimid® (lenalidomide) in earlier lines of diffuse large B-cell lymphoma (DLBCL) and a second Phase II combination study with MT-3724 and Revlimid® (lenalidomide) in earlier lines of DLBCL. We filed an IND for MT-5111, our ETB targeting HER2, in March 2019 and the IND was accepted in April 2019. We expected to begin dosing patients in a Phase I study of MT-5111 in the third quarter of 2019. We anticipate filing IND applications for TAK-169 in 2019 and for our PD-L1 ETB in the second half of 2019.

We have built up multiple core competencies around the creation and development of ETBs. We developed the ETB technology in-house and continue to make iterative improvements in the scaffold and identify new uses of the technology. We also developed the proprietary process for manufacturing ETBs under Good Manufacturing Process, or GMP standards and continue to make improvements to its manufacturing processes.

We have conducted multiple GMP manufacturing runs with its lead compound and believes this process is robust and could support commercial production with gross margins that are similar to those seen with antibodies.

We are a clinical-stage company and have not generated revenue from product sales. Our ability to generate revenue sufficient to achieve profitability will depend heavily on the successful development and eventual commercialization of one or more of our ETB candidates. Since inception, we have incurred significant operating losses. For the three months ended March 31, 2019 and 2018, we incurred net losses of \$6.2 million and \$8.7 million, respectively. As of March 31, 2019, we had an accumulated deficit of \$100.9 million.

In September 2018, we completed a public offering of 9,430,000 shares of common stock at an offering price of \$5.50 per share, which included the exercise in full by the underwriters of their option to purchase up to 1,230,000 additional shares of common stock. We received net proceeds of approximately \$48.1 million, after deducting underwriting discounts, commissions and estimated offering related transaction costs. We will continue to require substantial additional capital to continue our clinical development and potential commercialization activities. Accordingly, we will need to raise substantial additional capital to continue to fund our operations.

However, we expect to incur significant expenses and operating losses for the foreseeable future as we advance our lead ETB candidates through clinical trials, progress our pipeline ETB candidates from discovery through pre-clinical development, and seek regulatory approval and pursue commercialization of our ETB candidates. In addition, if we obtain regulatory approval for any of our ETB candidates, we expect to incur significant commercialization expenses related to product manufacturing, marketing, sales and distribution. In addition, we may incur expenses in connection with the in-license or acquisition of additional technology to augment or enable development of future ETB candidates. Furthermore, we expect to incur additional costs associated with operating as a public company, including significant legal, accounting, investor relations and other expenses that we did not incur as a private company.

As a result, we will need additional financing to support our continuing operations. Until such time as we can generate significant revenue from product sales, if ever, we expect to finance our operations through a combination of public or private equity and debt financings or other sources, which may include collaborations with third parties. Adequate additional financing may not be available to us on acceptable terms, or at all. Our inability to raise capital as and when needed would have a negative impact on our financial condition and our ability to pursue our business strategy. We will need to generate significant revenue to achieve profitability, and we may never do so.

We expect that our existing cash and cash equivalents will enable us to fund our operating expenses and capital expenditure requirements into the first half of 2021.

## **Collaboration Agreements**

# Takeda Pharmaceuticals

We recognize collaboration revenue over time as a customer obtains control of promised goods or services. For more information about our collaboration revenue, please see Note 3, Research and Development Agreements to our unaudited condensed financial statements for the three months ended March 31, 2019, included in this Ouarterly Report on Form 10-O.

Takeda Collaboration and Individual Project Agreements

In October 2016, we entered into a collaboration and option agreement (the "Takeda Collaboration Agreement") with Millennium Pharmaceuticals, Inc., a wholly owned subsidiary of Takeda Pharmaceutical Company Ltd. ("Takeda") to discover and develop CD38-targeting ETBs, which includes MT-4019 for evaluation by Takeda. Under the terms of the agreement, we are responsible for providing to Takeda (i) new ETBs generated using Takeda's proprietary antibodies targeting CD38 and (ii) MT-4019 for *in vitro* and *in vivo* pharmacological and anti-tumor efficacy evaluations. We granted Takeda an exclusive option to negotiate and obtain an exclusive worldwide license to develop and commercialize any ETB that may result from this collaboration, including MT-4019. We are entitled to receive up to \$2.0 million in technology access fees and cost reimbursement associated with our performance and completion of our obligations under the agreement. As of March 31, 2019, we have received \$2.0 million under the Takeda Collaboration Agreement.

In connection with the Takeda Collaboration Agreement, we entered into an Individual Project Agreement (the "Takeda Individual Project Agreement") with Takeda in June 2018 that was subsequently amended in July 2018. Under the Takeda Individual Project Agreement, we are responsible to perform certain research and development services relating to Chemistry, Manufacturing, and Controls ("CMC") work for three potential lead ETBs targeting CD38. In consideration of these services, we will receive up to \$2.2 million in compensation. As of March 31, 2019, we have received \$2.0 million under the Takeda Individual Project Agreement.

Takeda Development and License Agreement

On September 18, 2018, we entered into a development collaboration and exclusive license agreement (the "License Agreement") with Millennium Pharmaceuticals, Inc., a wholly-owned subsidiary of Takeda Pharmaceutical Company Limited ("Takeda"), for the development and commercialization of products incorporating or comprised of one or more CD38 SLT-A fusion proteins ("Licensed Products") for the treatment of patients with diseases such as multiple myeloma.

Pursuant to the License Agreement, we will initially co-develop with Takeda one or more of the Licensed Products up to and including Phase Ia clinical trials, with us having an option to continue to co-develop the Licensed Products following Phase Ia clinical trials. We may exercise our co-development option within a specified time period following completion of the Phase Ia clinical trials with no additional fee by providing written notice of exercise to Takeda, provided we have paid all co-development costs due pursuant to the License Agreement as of the date of such exercise. Pursuant to the terms of the License Agreement, Takeda will be responsible for all regulatory activities and commercialization of the Licensed Products. We have granted Takeda specified intellectual property licenses to enable Takeda to perform its obligations and exercise its rights under the License Agreement, including exclusive license grants to enable Takeda to conduct development, manufacturing, and commercialization activities pursuant to the terms of the License Agreement.

Pursuant to the Development Agreement, Takeda made an upfront payment of \$30.0 million to us. In addition to the upfront fee, if we exercise our co-development option and fund our share of development costs, we may receive up to an additional \$307.5 million in milestone payments upon the achievement of certain development and regulatory milestone events and up to an additional \$325 million in milestone payments upon the achievement of certain sales milestone events. If we do not exercise our co-development option, we may receive up to an additional \$162.5 million in milestone payments upon the achievement of certain development and regulatory milestone events and up to an additional \$175 million in milestone payments upon the achievement of certain sales milestone events. We will also be entitled to receive tiered royalties, subject to certain reductions, as percentages of annual aggregate net sales, if any, of Licensed Products. The royalty percentages would range from low double-digits to low twenties if we exercise our option to co-develop, and from high-single digits to low teens if we do not exercise its option to co-develop.

The parties will share in co-development costs in accordance with the terms of the Development Agreement, and Takeda will be responsible for all costs incurred commercializing the Licensed Products.

Unless earlier terminated, the License Agreement will expire upon the expiration of the last-to-expire co-development royalty term (or royalty term, if applicable) for a Licensed Product. Takeda has the right to terminate the License Agreement at any time upon no less than ninety days' prior written notice tous. We or Takeda may, subject to specified cure periods, terminate the License Agreement in the event of the other party's uncured material breach, and either party may terminate the License Agreement under specified circumstances relating to the other party's insolvency.

Takeda Multi-Target Agreement

In June 2017, we entered into a multi-target collaboration and license agreement with Takeda (the "Takeda Multi-Target Agreement"), pursuant to which we will collaborate with Takeda to identify, generate and evaluate ETBs, against certain targets designated by Takeda. Pursuant to the Takeda Multi-Target Agreement, Takeda will designate certain targets of interest as the focus of the research. Takeda will provide to us targeting moieties against the designated targets and we will create and characterize ETBs against those targets and provide them to Takeda for further evaluation. Each party granted to the other nonexclusive rights in its intellectual property for purposes of the conduct of the research, and we agree to work exclusively with Takeda with respect to the designated targets. We are entitled to receive up to \$5.0 million in technology access fees and research and development fees associated with our performance and completion of our obligations under the agreement. In December 2017, Takeda nominated both targets under the Takeda Multi-Target Agreement. As of March 31, 2019, we have received \$5.0 million under the Takeda Multi-Target Agreement.

Under the Takeda Multi-Target Agreement, Takeda has an option to acquire an exclusive license under our intellectual property to develop, manufacture, commercialize and otherwise exploit ETBs against the designated targets. Upon exercise of the option, Takeda is obligated to use commercially reasonable efforts to develop and obtain regulatory approval of any licensed ETBs in major market countries, and thereafter to commercialize licensed ETBs in those countries. We are obligated to manufacture ETBs to support research and clinical development through Phase I clinical trials, provided that Takeda can assume manufacturing responsibility at any time.

Under the Multi-Target Agreement, license fees and research and early and late state development milestone payments which are based on various research and clinical milestones, including the initiation of certain clinical studies, the submission for approval of a drug candidate to certain regulatory authorities for marketing approval and the commercial launch of collaboration products could become due. We may receive additional net milestone payments of \$25.0 million in aggregate through the exercise of the option to license ETBs under the Takeda Multi-Target Agreement. Additionally, we are entitled to receive up to approximately \$547.0 million in additional milestone payments through preclinical and clinical development and commercialization. We are also entitled to tiered royalty payments of a mid-single to low-double digit percentage of net sales of any licensed ETBs, subject to certain reductions. Finally, we are entitled to receive up to \$10.0 million in certain contingency fees.

The Takeda Multi-Target Agreement will expire on the expiration of the option period for the designated targets if Takeda does not exercise its options, or, following exercise of the option, on the later of the expiration of patent rights claiming the licensed ETB or ten years from first commercial sale of a licensed ETB. The Takeda Multi-Target Agreement may be sooner terminated by Takeda for convenience; or by us upon a change of control; or by either party for an uncured material breach of the agreement.

For more information about our collaboration agreements, please see Note 3, Research and Development Agreements to our unaudited condensed financial statements for the three months ended March 31, 2019, included in this Quarterly Report on Form 10-Q.

## **CPRIT Grant Contract**

On September 18, 2018, we entered into a Cancer Research Grant Contract (the "CPRIT Agreement") with CPRIT, in connection with a grant of approximately \$15.2 million awarded by CPRIT to us in November 2016 to fund research of a cancer therapy involving an ETB that is targeting CD38 (MT-4019) (the "Award"). Pursuant to the CPRIT Agreement, we may also use such funds to develop a replacement CD38 targeting ETB, with or without a partner. The Award is contingent upon funds being available during the term of the Agreement and subject to CPRIT's ability to perform its obligations under the Agreement as well as our progress towards achievement of specified milestones, among other contractual requirements.

In November 2011, Private Molecular was awarded a \$10.6 million product development grant from CPRIT for its CD20-targeting ETB MT-3724.

Subject to the terms of the Agreement, full ownership of any CPRIT funded technology and CPRIT funded intellectual property rights developed pursuant to the CPRIT Agreement will be retained by us, our Collaborators (as defined in the CPRIT Agreement) and, to the extent applicable, any participating third party (the "Project Results"). With respect to any Project Results, we agreed to grant to CPRIT a nonexclusive, irrevocable, royalty-free, perpetual, worldwide license, solely for academic, research and other non-

commercial purposes, under the Project Results and to exploit any necessary additional intellectual property rights, subject to certain exclusions.

We will pay to CPRIT, during the term of the CPRIT Agreement, certain payments equal to a percentage of revenue ranging from the low- to mid-single digits. These payments will continue up to and until CPRIT receives an aggregate amount of 400% of the sum of all monies paid to us by CPRIT under the CPRIT Agreement. If we are required to obtain a license from a third party to sell any such product, the revenue sharing percentages may be reduced. In addition, once we pay CPRIT 400% of the monies we have received under the CPRIT Agreement, we will continue to pay CPRIT a revenue-sharing percentage of 0.5%.

The CPRIT Agreement will terminate, with certain obligations extending beyond termination, on the earlier of (a) May 31, 2019 or (b) the occurrence of any of the following events: (i) by mutual written consent of the parties, (ii) by CPRIT for an Event of Default (as defined in the CPRIT Agreement) by us, (iii) by CPRIT if allocated funds should become legally unavailable during the term of the CPRIT Agreement and CPRIT is unable to obtain additional funds or (iv) by us for convenience. CPRIT may approve a no cost extension for the CPRIT Agreement for a period not to exceed six months after the termination date if additional time is required to ensure adequate completion of the approved project, subject to the terms and conditions of the CPRIT Agreement.

# **Financial Operations Overview**

#### Revenue

Our revenue has consisted principally of research and development revenue and grant revenue.

Research and Development revenue primarily relates to our collaboration agreements with Takeda which are accounted for using the percentage-of-completion cost-to-cost method. We have an ongoing research collaboration with Takeda Pharmaceuticals related to the evaluation of our ETB technology that was initiated in the fourth quarter 2016. The Takeda Collaboration Agreement, Takeda License Agreement and Takeda Multi-Target Agreement provide for upfront technology access fees, milestone payments and reimbursement payments.

Grant revenue relates to our Cancer Prevention Research Institute of Texas, or CPRIT grants for a CD-20 ETB (MT-3724) and a CD-38 ETB (MT-4019). CPRIT grant funds for MT-3724 are provided to us in advance as conditional cost reimbursement where revenue is recognized as allowable costs are incurred. Amounts collected in excess of revenue recognized are recorded as deferred revenue. CPRIT grant funds for MT-4019 are provided to us in arrears as cost reimbursement where revenue is recognized as allowable costs are incurred. Revenue recognized in excess of amounts collected are recorded as unbilled revenue.

For more information about our revenue recognition policy, please see Note 1, Summary of Significant Accounting Policies to our audited consolidated financial statements for the years ended December 31, 2018, included in this Annual Report on Form 10-K.

We have no products approved for sale. Other than the sources of revenue described above, we do not expect to receive any revenue from any ETB candidates that we develop, including MT-3724, MT-4019 and other pre-clinical ETB candidates, until we obtain regulatory approval and commercialize such products, or until we potentially enter into collaborative agreements with third parties for the development and commercialization of such candidates.

# Research and Development Expenses

Research and development expenses consist principally of:

- salaries for research and development staff and related expenses, including stock-based compensation expenses;
- · costs for current good manufacturing practices, or cGMP, manufacturing of drug substances and drug products by contract manufacturers;
- fees and other costs paid to clinical trials sites and clinical research organizations, or CROs, in connection with the performance of clinical trials and preclinical testing;
- costs for consultants and contract research;
- costs of laboratory supplies and small equipment, including maintenance; and
- depreciation of long-lived assets.

Our research and development expenses may vary substantially from period to period based on the timing of our research and development activities, including the initiation and enrollment of patients in clinical trials and manufacture of drug materials for clinical trials. We expect research and development expenses to increase as we advance the clinical development of MT-3724 and further advances the research and development of our pre-clinical ETB candidates, and other earlier stage products. The successful development of our ETB candidates is highly uncertain. At this time, we cannot reasonably estimate the nature, timing and estimated costs of the efforts that will be necessary to complete the development of, or the period, if any, in which material net cash inflows may

commence from, any of our ETB candidates. This is due to numerous risks and uncertainties associated with developing drugs, including the uncertainty of:

- the scope, rate of progress and expense of our research and development activities;
- clinical trials and early-stage results;
- · the terms and timing of regulatory approvals; and
- the ability to market, commercialize and achieve market acceptance for MT-3724, or any other ETB candidate that we may develop in the future.

Any of these variables with respect to the development of MT-3724, co-development of TAK-169, or any other ETB candidate that we may develop could result in a significant change in the costs and timing associated with the development of MT-3724, co-development of TAK-169, or such other ETB candidates. For example, if the U.S. Food and Drug Administration, or the FDA, the European Medical Association or the EMA, or other regulatory authority were to require us to conduct pre-clinical and clinical studies beyond those which we currently anticipate will be required for the completion of clinical development or if we experience significant delays in enrollment in any clinical trials, we could be required to expend significant additional financial resources and time on the completion of our clinical development programs.

## General and Administrative Expenses

Our general and administrative expenses consist principally of:

- salaries for employees other than research and development staff, including stock-based compensation expenses;
- professional fees for auditors and other consulting expenses related to general and administrative activities;
- · professional fees for legal services related to the protection and maintenance of our intellectual property and regulatory compliance;
- · cost of facilities, communication and office expenses;
- · information technology services; and
- depreciation of long-lived assets.

We expect that our general and administrative costs will increase in the future as our business expands and we increase our headcount to support the expected growth in our operating activities. Additionally, we expect these expenses will also increase in the future as we incur additional costs associated with operating as a public company. These increases will likely include additional legal fees, accounting and audit fees, management board and supervisory board liability insurance premiums and costs related to investor relations. In addition, we expect to grant stock-based compensation awards to key management personnel and other employees.

## Other Income (Expense)

Other income (expense) mainly includes interest income earned on our cash and marketable securities balances held, and interest expense on our outstanding borrowings.

# Change in fair value of warrant liability

Change in fair value of warrant liability relates to the change in fair value of our warrants categorized as liabilities.

# **Results of Operations**

The table below summarizes our results of operations for the three months ended March 31, 2019 and 2018 (in thousands).

		Three Months Ended March 31,			
	2019		2018		
Research and development revenue - from related party	\$ 6,4	13 \$	163		
Research and development revenue - other	-	_	68		
Grant revenue	59	95	251		
Total revenue	7,00	)8	482		
Research and development expenses	8,4:	54	6,687		
General and administrative expenses	4,93	35	2,910		
Total operating expenses	13,38	39	9,597		
Loss from operations	6,33	31	9,115		
Interest and other income, net	5:	10	82		
Interest expense	(29	93)	(295)		
Change in fair value of warrant liabilities		(4)	614		
Net loss	\$ 6,10	58 \$	8,714		

# Research and Development Revenue - from related party

Research and development revenue – from related party increased \$6.3 million during the three months ended March 31, 2019 compared to the three months ended March 31, 2018. Research and development revenues – from related party for the three months ended March 31, 2019 and 2018 were comprised of research and development revenues from our collaboration with Takeda. The increase in research and development revenues from our collaboration with Takeda was primarily due to revenue recognized under the Takeda Development and License Agreement which did not exist during the three months ended March 31, 2018.

For more information about our collaboration agreements, please see Note 3, Research and Development Agreements, to our unaudited condensed financial statements for the three months ended March 31, 2019, included in this Quarterly Report on Form 10-Q.

# Grant Revenue

Grant revenue increased \$344,000 during the three months ended March 31, 2019 when compared to the three months ended March 31, 2018. The increase was primarily attributable to the CPRIT grant related to CD-20 targeting ETB MT-3724.

# Research and Development Expenses

The table below summarizes our research and development expenses for the three months ended March 31, 2019 and 2018 (in thousands).

Research and development expenses by cost type:	March 31,			
	 2019 2018			
Employee compensation	\$ 2,998	\$	1,694	
Program costs	4,031		3,771	
Laboratory costs	637		375	
Other research and development costs	788		847	
Total research and development expenses	\$ 8,454	\$	6,687	

Research and development expenses increased \$1.8 million during the three months ended March 31, 2019 as compared to the three months ended March 31, 2018. The increase was primarily due to costs related to increased payroll related costs due to increased headcount, along with increased outsourced program costs and laboratory costs.

From a program perspective, all of our research and development expenses relate to the discovery and development of ETBs. The increase in outsourced program costs of \$260,000 during the three months ended March 31, 2019 compared to the three months ended March 31, 2018 is primarily due to increase in costs related to NHL of \$402,000, CD-38 (TAK-169) of \$631,000 and PD-L1 of \$623,000, partially offset by decreases in other programs.

The risks and uncertainties associated with our research and development projects are discussed more fully in the "Risk Factors" section in Part II, Item 1A of this Quarterly Report on Form 10-Q. As a result of the risks and uncertainties discussed in the "Risk Factors" section and above, we are unable to determine with any degree of certainty the duration and completion costs of our research and development projects, anticipated completion dates or when and to what extent we will receive cash inflows from the commercialization and sale of a product candidate. To date, we have not commercialized any of our product candidates and in fact may never do so.

# General and Administrative Expenses

General and administrative expenses increased \$2.0 million during the three months ended March 31, 2019 compared to the three months ended March 31, 2018, primarily attributable to costs associated with being a publicly traded company, along with increased payroll related costs due to increased headcount.

#### Interest and Other Income

Interest and other income increased \$428,000 during the three months ended March 31, 2019, as compared to the three months ended March 31, 2018, primarily due to higher yielding investments and higher cash, cash equivalents and marketable securities balances.

# Change in fair value of warrant liability

The change in fair value of warrant liabilities relates to the revised fair value of the 2017 warrants categorized as liabilities. The decrease in the change in fair value of the warrant liabilities is primarily due to the decrease in the underlying stock price of our common stock as well the decrease in the expected term of the warrants as they are nearing expiration.

# Liquidity and Capital Resources

# Sources of Funds

We have devoted substantially all of our resources to developing our ETB candidates and platform technology, building our intellectual property portfolio, developing our supply chain, conducting business planning, raising capital and providing for general and administrative support for these operations. We plan to increase our research and development expenses for the foreseeable future as we continue to advance MT-3724, TAK-169 and our earlier-stage pre-clinical programs. At this time, due to the inherently unpredictable nature of preclinical and clinical development and given the early stage of our programs and product candidates, we cannot reasonably estimate the costs we will incur and the timelines that will be required to complete development, obtain marketing approval and commercialize our products, if and when approved. For the same reasons, we are also unable to predict when, if ever, we will generate revenue from product sales or whether, or when, if ever, we may achieve profitability. Clinical and preclinical development timelines, the probability of success and development costs can differ materially from expectations. In addition, we cannot forecast which products, if and when approved, may be subject to future collaborations, when such arrangements will be secured, if at all, and to what degree such arrangements would affect our development plans and capital requirements. We have incurred an accumulated deficit of \$100.9 million through March 31, 2019. We expect to incur substantial additional losses in the future as we expand our research and development activities. Based on our current research and development plans, we expect that our existing cash, cash equivalents and marketable securities will enable us to fund our operating expenses and capital expenditure requirements into the first half of 2021.

Our financial statements as of March 31, 2019 have been prepared under the assumption that we will continue as a going concern for the next 12 months. To date, we have financed our operations through private placements of equity securities, a reverse merger, and upfront and milestone payments received from our collaborators under our research evaluation agreements, as well as funding from governmental bodies and bank and bridge loans. Since 2009, we raised gross proceeds of \$78.2 million from private placements of equity securities, including \$40.0 million from the Private Placement in August 2017 and \$20.0 million from the Takeda Financing in August 2017; as well as \$52.0 million in gross proceeds from a public offering in September 2018. Since 2009, we have also received aggregate gross proceeds of \$39.7 million from our collaborators, received \$10.0 million in proceeds from related-party convertible promissory notes, received \$6.0 million in proceeds from bank loan from Silicon Valley Bank, or SVB, \$5.0 million in proceeds from the Perceptive Facility; and assumed \$15.2 million of cash balances of Threshold upon the closing of the Merger.

On February 27, 2018, we entered into the Perceptive Credit Facility, which allows for aggregate borrowings of up to \$10.0 million, subject to our achievement of certain milestones. We drew down an aggregate of \$5.0 million under the Perceptive Credit Facility through March 31, 2019. Payments for the first 24 months are interest only and are paid quarterly, commenced April 2018. After the second anniversary of the closing date of the Perceptive Credit Facility, principal payments of \$200,000 are due each calendar quarter, with a final payment of \$3.4 million due on February 27, 2022. The loan matures on February 27, 2022 and is secured by substantially all our assets.

On September 18, 2018, the Company entered into a Cancer Research Grant Contract (the "CPRIT Agreement") with the CPRIT, in connection with a grant of approximately \$15.2 million awarded by CPRIT to the Company in November 2016 to fund research of a cancer therapy involving a CD38 targeting ETB. Pursuant to the CPRIT Agreement, the Company may also use such funds to develop a replacement CD38 targeting ETB, with or without a partner.

In November 2016, we received notice that we have been awarded a second CPRIT product development grant totaling \$15.2 million to fund development of our CD38-targeting ETB MT-4019, and we are currently in the process of negotiating the terms of the contract with CPRIT.

In April 2014, we entered into a loan and security agreement with SVB that was subsequently amended in April 2015 (the "Growth Capital Loan"), and we borrowed an aggregate of \$6.0 million under the Growth Capital Loan through February 27, 2018. We used the proceeds from the Perceptive Credit Facility to pay off the Growth Capital Loan on February 27, 2018. We paid \$3.2 million in principal, \$375,000 in a final fee, and \$42,000 in interest during the three months ended March 31, 2018.

As of March 31, 2019, we had cash, cash equivalents, marketable securities, and restricted cash of \$86.6 million. As of December 31, 2018, we had cash, cash equivalents and marketable securities of \$98.0 million.

# Cash Flows

(in thousands)		Three Months Ended March 31,					
	2019		2018				
Net cash used in operating activities	\$ (10,976	) \$	(8,983)				
Net cash used in investing activities	(35,920	)	(1,719)				
Net cash provided by financing activities	30		1,067				
Net decrease in cash, cash equivalents and restricted cash	\$ (46,866	) \$	(9,635)				

The increase in net cash used in operating activities to \$11.0 million for the three months ended March 31, 2019 from \$9.0 million for the three months ended March 31, 2018 was primarily due to an increase in operating cash disbursements as result of an increase in operating activities.

The increase in net cash used in investing activities to \$35.9 million for the three months ended March 31, 2019 from \$1.7 million in net cash provided from investing activities for the three months ended March 31, 2018 was primarily due to increased purchases of marketable securities.

The decrease in net cash provided by financing activities to \$30,000 for the three months ended March 31, 2019 from \$1.1 million for the three months ended March 31, 2018 was primarily due to receiving \$932,000 net proceeds from when the Company entered into the Perceptive Credit Facility in February 2018 compared to none in the three months ended March 31, 2019.

# Operating and Capital Expenditure Requirements

We have not achieved profitability since our inception and had an accumulated deficit of \$100.9 million as of March 31, 2019. We expect to continue to incur significant operating losses for the foreseeable future as we continue our research and development efforts and seek to obtain regulatory approval and commercialization of our ETB candidates.

We expect our expenses to increase substantially in connection with our ongoing development activities related to MT-3724, co-development activities related to TAK-169, our pre-clinical programs, and expanding our operating capabilities. In addition, we expect to incur additional costs associated with operating as a public company. We anticipate that our expenses will increase substantially if and as we:

- complete the ongoing Phase I expansion clinical trial of MT-3724, our lead ETB candidate;
- support the ongoing Phase Ib and initiate Phase II clinical trials of MT-3724;

- co-develop TAK-169 with Takeda;
- · continue the research and development of our other ETB candidates, including completing pre-clinical studies and commencing clinical trials;
- seek to enhance our technology platform using our antigen-seeding technology approach to immuno-oncology;
- seek regulatory approvals for any ETB candidates that successfully complete clinical trials;
- potentially establish a sales, marketing and distribution infrastructure and scale up manufacturing capabilities to commercialize any products for which we may obtain regulatory approval;
- add clinical, scientific, operational, financial and management information systems and personnel, including personnel to support our product development
  and potential future commercialization efforts and to support our increased operations; and
- experience any delays or encounter any issues resulting from any of the above, including but not limited to failed studies, complex results, safety issues or other regulatory challenges.

We expect that our existing cash and cash equivalents will enable us to fund our operating expenses and capital expenditure requirements into the first half of 2021. We have based this estimate on assumptions that may prove to be wrong, and we may use our available capital resources sooner than we currently expect.

Because of the numerous risks and uncertainties associated with the development of MT-3724, co-development of TAK-169, and our other pre-clinical programs, and because the extent to which we may enter into collaborations with third parties for development of these ETB candidates is unknown, we are unable to estimate the amounts of increased capital outlays and operating expenses associated with completing the research and development of our ETB candidates. Our future capital requirements for MT-3724, TAK-169 or our other pre-clinical programs will depend on many factors, including:

- the progress, timing and completion of pre-clinical testing and clinical trials for our current or any future ETB candidates;
- the number of potential new ETB candidates we identify and decide to develop;
- the costs involved in growing our organization to the size needed to allow for the research, development and potential commercialization of our current or any future ETB candidates;
- the costs involved in filing patent applications and maintaining and enforcing patents or defending against claims or infringements raised by third parties;
- the time and costs involved in obtaining regulatory approval for our ETB candidates and any delays we may encounter as a result of evolving regulatory requirements or adverse results with respect to any of these ETB candidates;
- · any licensing or milestone fees we might have to pay during future development of our current or any future ETB candidates;
- selling and marketing activities undertaken in connection with the anticipated commercialization of our current or any future ETB candidates and costs involved in the creation of an effective sales and marketing organization; and
- the amount of revenues, if any, we may derive either directly or in the form of royalty payments from future sales of our ETB candidates, if approved.

Identifying potential ETB candidates and conducting pre-clinical 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, our ETB candidates, if approved, may not achieve commercial success. Our commercial revenues, if any, will be derived from sales of products that we do not expect to be commercially available for many years, if ever. Accordingly, we will need to obtain substantial additional funds to achieve our business objectives.

Adequate additional funds may not be available to us on acceptable terms, or at all. To the extent that we raise additional capital through the sale of equity or convertible debt securities, stockholders' ownership interest will be diluted, and the terms of these securities may include liquidation or other preferences that adversely affect their rights as stockholders. Additional debt financing and equity financing, if available, may involve agreements that include covenants limiting or restricting our ability to take specific actions, such as incurring additional debt, making capital expenditures or declaring dividends and may require the issuance of warrants, which could potentially dilute stockholders' ownership interest.

If we raise additional funds through collaborations, governmental grants, strategic alliances or licensing arrangements with third parties, we may have to relinquish valuable rights to our technologies, future revenue streams, research programs or ETB 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 when needed, we may be required to delay, limit, reduce or terminate our product development programs or any future commercialization efforts or grant rights to develop and market ETB candidates that we would otherwise prefer to develop and market ourselves.

# Critical Accounting Policies and Use of Estimates

Our discussion and analysis of our financial condition and results of operations are based on our unaudited condensed consolidated financial statements, which have been prepared in accordance with accounting principles generally accepted in the United States of America for interim financial information. The preparation of these unaudited condensed consolidated financial statements requires us to make estimates and judgments that affect the reported amounts of assets, liabilities and expenses based on historical experience and on various assumptions that we believe to be reasonable under the circumstances. Actual results may differ from these estimates under different assumptions or conditions. For further information on our critical accounting policies, see the discussion of critical accounting policies in our Annual Report on Form 10-K for the year ended December 31, 2018, which we filed with the SEC on March 29, 2019.

# Recently Adopted Accounting Pronouncements

On January 1, 2019, we adopted Accounting Standards Update No. 2016-02, Leases (Topic 842) (ASU 2016-02), as amended, which supersedes the lease accounting guidance under Topic 840, and generally requires lessees to recognize operating and financing lease liabilities and corresponding right-of-use (ROU) assets on the balance sheet and to provide enhanced disclosures surrounding the amount, timing and uncertainty of cash flows arising from leasing arrangements. We adopted the new guidance using the modified retrospective transition approach by applying the new standard to all leases existing at the date of initial application and not restating comparative periods. The most significant impact was the recognition of ROU assets and lease liabilities for operating leases, while our accounting for finance leases remained substantially unchanged.

The impact of the adoption of the standard to prior period amounts is discussed in Note 8, Leases.

# Recent Accounting Pronouncements Not Yet Adopted

For a discussion of recently issued accounting pronouncements and interpretations not yet adopted by us, please see Note 1, Organization and Summary of Significant Accounting Policies, to our unaudited condensed financial statements for the three months ended March 31, 2019, included in this Quarterly Report on Form 10-Q.

# Contractual Commitments and Obligations

As of March 31, 2019, we had no material commitments other than the liabilities reflected and commitments disclosed in our condensed consolidated financial statements.

# 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.

# ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

The Company is exposed to a variety of financial risks. The Company's overall risk management program seeks to minimize potential adverse effects of these financial risks on its financial performance.

# Credit Risk

The Company considers all of its material counterparties to be creditworthy. The Company considers the credit risk for each of its counterparties to be low and does not have a significant concentration of credit risk at any of its counterparties.

# Liquidity Risk

The Company manages its liquidity risk by maintaining adequate cash reserves at banking facilities, and by continuously monitoring its cash forecasts, its actual cash flows and by matching the maturity profiles of financial assets and liabilities.

# Market Risk

The Company is not subject to any significant foreign exchange risk and interest rate risk.

# ITEM 4. CONTROLS AND PROCEDURES

# Evaluation of disclosure controls and procedures.

Our management, with the participation of our principal executive officer and principal financial officer, evaluated the effectiveness of our disclosure controls and procedures as of March 31, 2019. The term "disclosure controls and procedures," as defined in Rules 13a-15(e) and 15d-15(e) under 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 its management, including its principal executive and principal financial officers, as appropriate to allow timely decisions regarding required disclosure. Management recognizes that any 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 March 31, 2019, our principal executive officer and principal financial officer concluded that, as of such date, our disclosure controls and procedures were effective at the reasonable assurance level.

# Inherent Limitations of Internal Controls

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Therefore, even those systems determined to be effective can provide only reasonable assurance with respect to financial statement preparation and presentation. Projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate

# Changes in internal controls over financial reporting.

There were no changes in our internal control over financial reporting identified in connection with the evaluation required by Rule 13a-15(d) and 15d-15(d) of the Exchange Act that occurred during the three months ended March 31, 2019 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

#### PART II. OTHER INFORMATION

#### ITEM 1. LEGAL PROCEEDINGS

From time to time, we are subject to various legal proceedings, claims and administrative proceedings that arise in the ordinary course of our business activities. Although the results of the litigation and claims cannot be predicated with certainty, as of the date of this report, we do not believe we are party to any claim, proceeding or litigation the outcome of which, if determined adversely to us, would individually or in the aggregate be reasonably expected to have a material adverse effect on our business. Regardless of the outcome, litigation can have an adverse impact on us because of defense and settlement costs, diversion of management resources and other factors.

## ITEM 1A. RISK FACTORS

We have identified the following risks and uncertainties that may have a material adverse effect on our business, financial condition or results of operations. The risks described below are not the only ones we face. Additional risks not presently known to us or other factors not perceived by us to present significant risks to our business at this time may also significantly impair our business operations. Our business could be harmed by any of these risks. Investing in our common stock involves a high degree of risk. You should carefully consider the risks and uncertainties described below, together with all other information contained in this Quarterly Report on Form 10-Q, including our consolidated financial statements and the related notes, before making any decision to purchase our common stock. If any of the possible adverse events described below actually occurs, we may be unable to conduct our business as currently planned and our prospects, financial condition, operating results and cash flows could be materially harmed. In addition, the trading price of our common stock could decline due to the occurrence of any of the events described below, and you may lose all or part of your investment. In assessing these risks, you should refer to the other information contained in this Quarterly Report on Form 10-Q, including our consolidated financial statements and related notes

## Risks Related to Our Financial Condition and Capital Requirements

We have incurred losses since inception, have a limited operating history on which to assess our business, and anticipate that we will continue to incur significant losses for the foreseeable future.

We are a clinical development-stage biopharmaceutical company with a limited operating history. We have incurred net losses in each year since 2009, including net losses attributable to common shareholders of \$6.2 million for three months ended March 31, 2019. As of March 31, 2019, we had an accumulated deficit of \$100.9 million.

As of March 31, 2019, we had cash, cash equivalents, restricted cash and marketable securities of \$86.6 million. In August 2017, we raised approximately \$60.0 million though private placements of our common stock and warrants to purchase our common stock. In September 2018, we completed a public offering of 9,430,000 shares of common stock at an offering price of \$5.50 per share, which included the exercise in full by the underwriters of their option to purchase up to 1,230,000 additional shares of common stock. We received net proceeds of approximately \$48.1 million, after deducting underwriting discounts, commissions and estimated offering related transaction costs. We will continue to require substantial additional capital to continue our clinical development and potential commercialization activities. Accordingly, we will need to raise substantial additional capital to continue to fund our operations. The amount and timing of our future funding requirements will depend on many factors, including the pace and results of our clinical development efforts. Failure to raise capital as and when needed, on favorable terms or at all, would have a negative impact on our financial condition and our ability to develop our product candidates.

We have devoted substantially all of our financial resources to identify, acquire, and develop our product candidates, including conducting clinical trials and providing general and administrative support for our operations. To date, we have financed our operations primarily through the sale of equity securities and convertible promissory notes. The amount of our future net losses will depend, in part, on the rate of our future expenditures and our ability to obtain funding through equity or debt financings, strategic collaborations or grants. Biopharmaceutical product development is a highly speculative undertaking and involves a substantial degree of risk. We expect losses to increase as we complete Phase I development and advance into Phase II development of our lead product candidates. We have not yet commenced pivotal clinical trials for any product candidate and it may be several years, if ever, before we complete pivotal clinical trials and have a product candidate approved for commercialization. We expect to invest significant funds into the research and development of our current product candidates to determine the potential to advance these product candidates to regulatory approval.

If we obtain regulatory approval to market one or more products, our future revenue will depend upon the size of any markets in which our product candidates may receive approval, and our ability to achieve sufficient market acceptance, pricing, reimbursement from third-party payors and adequate market share for our product candidates in those markets. Even if we obtain adequate market

share for one or more products, because the potential markets in which our product candidates may ultimately receive regulatory approval could be very small, we may never become profitable despite obtaining such market share and acceptance of our products.

We expect to continue to incur significant expenses and increasing operating losses for the foreseeable future and our expenses will increase substantially if and as we:

- continue the clinical development of our product candidates;
- · continue efforts to discover new product candidates;
- undertake the manufacturing of our product candidates or increase volumes manufactured by third parties;
- advance our programs into larger, more expensive clinical trials;
- initiate additional preclinical, clinical, or other trials or studies for our product candidates;
- seek regulatory and marketing approvals and reimbursement for our product candidates;
- establish a sales, marketing, and distribution infrastructure to commercialize any products for which we may obtain marketing approval and market for ourselves:
- seek to identify, assess, acquire, and/or develop other product candidates;
- make milestone, royalty or other payments under third-party license agreements;
- seek to maintain, protect, and expand our intellectual property portfolio;
- seek to attract and retain skilled personnel; and
- experience any delays or encounter issues with the development and potential for regulatory approval of our clinical candidates such as safety issues, clinical trial accrual delays, longer follow-up for planned studies, additional major studies or supportive studies necessary to support marketing approval.

Further, the net losses we incur may fluctuate significantly from quarter to quarter and year to year, such that a period-to-period comparison of our results of operations may not be a good indication of our future performance.

## Our ability to use our net operating losses to offset future taxable income, if any, may be subject to certain limitations.

In general, under Section 382 of the Internal Revenue Code, or the Code, a corporation that undergoes an "ownership change" (generally defined as a greater than 50-percentage-point cumulative change (by value) in the equity ownership of certain stockholders over a rolling three-year period) is subject to limitations on its ability to utilize its pre-change net operating losses, or NOLs, to offset future taxable income. If we undergo additional ownership changes (some of which changes may be outside our control), our ability to utilize our NOLs could be further limited by Section 382 of the Code. The merger with Private Molecular (the "Merger") resulted in an ownership change under Section 382 of the Code for us, and our pre-Merger NOL carryforwards and certain other tax attributes will be subject to limitation. The NOL carryforwards and certain other tax attributes of ours may also be subject to limitations as a result of ownership changes. Our NOLs may also be impaired under state law. Accordingly, we may not be able to utilize a material portion of our NOLs. Furthermore, our ability to utilize our NOLs is conditioned upon our attaining profitability and generating U.S. federal taxable income. We have incurred net losses since our inception, and we anticipate that we will continue to incur significant losses for the foreseeable future; thus, we do not know whether or when we will generate the U.S. federal taxable income necessary to utilize our NOLs.

We are obligated to develop and maintain proper and effective internal control over financial reporting. In the future, we may not complete our execution of our internal control over financial reporting in a timely manner, or these internal controls may not be determined to be effective, which may result in additional material misstatements in our consolidated financial statements and may adversely affect investor confidence in our company and, as a result, the value of our common stock.

We are required, pursuant to Section 404 of the Sarbanes-Oxley Act, to furnish a report by management on, among other things, the effectiveness of our internal control over financial reporting. Complying with Section 404 requires a rigorous compliance program as well as adequate time and resources. We may not be able to complete our internal control evaluation, testing and any required remediation in a timely fashion. Additionally, if we identify one or more material weaknesses in our internal control over financial reporting, we will not be able to assert that our internal controls are effective. For example, our management concluded that our internal controls over financial reporting were not effective as of December 31, 2017, because a material weakness existed in our internal control over financial reporting related to not having adequate accounting personnel resulted in not timely and appropriately accounting for and disclosing the impact of complex, non-routine transactions in accordance with GAAP. Even though we remediated this material weakness as of December 31, 2018, if other material weaknesses are identified in the future or we are not able to comply

with the requirements of Section 404 in a timely manner, our reported financial results could be materially misstated, which could result in investors losing confidence in our reported financial information and may lead to a decline in the stock price. Failure to comply with Section 404 of the Sarbanes-Oxley Act could potentially subject us to sanctions or investigations by the SEC, the Financial Industry Regulatory Authority or other regulatory authorities, as well as increasing the risk of liability arising from litigation based on securities law.

# Failure to maintain effective internal controls in accordance with Section 404 of the Sarbanes-Oxley Act of 2002 could have a material adverse effect on our stock price.

Section 404 of the Sarbanes-Oxley Act and the related rules and regulations of the SEC require annual management assessments of the effectiveness of our internal control over financial reporting. If we fail to maintain the adequacy of our internal control over financial reporting, as such standards are modified, supplemented or amended from time to time, we may not be able to ensure that we can conclude on an ongoing basis that we have effective internal control over financial reporting in accordance with Section 404 of the Sarbanes-Oxley Act and the related rules and regulations of the SEC. If we cannot favorably assess, or if our independent registered public accounting firm is unable to provide an unqualified attestation report on, the effectiveness of our internal control over financial reporting, investor confidence in the reliability of our financial reports may be adversely affected, which could have a material adverse effect on our stock price.

#### We have never generated any revenue from product sales and may never become profitable.

We have no products approved for commercialization and have never generated any revenue. Our ability to generate revenue and achieve profitability depends on our ability, alone or with strategic collaborators, to successfully complete the development of, and obtain the regulatory and marketing approvals necessary to commercialize one or more of our product candidates. We do not anticipate generating revenue from product sales for the foreseeable future. Our ability to generate future revenue from product sales depends heavily on our success in many areas, including but not limited to:

- completing research and development of one or more of our product candidates;
- obtaining regulatory and marketing approvals for one or more of our product candidates;
- manufacturing one or more product candidates and establishing and maintaining supply and manufacturing relationships with third parties that are commercially feasible;
- marketing, launching and commercializing one or more product candidates for which we obtain regulatory and marketing approval, either directly or with a
  collaborator or distributor;
- gaining market acceptance of one or more of our product candidates as treatment options;
- meeting our supply needs in sufficient quantities to meet market demand for our product candidates, if approved;
- addressing any competing products;
- protecting, maintaining and enforcing our intellectual property rights, including patents, trade secrets and know-how;
- negotiating favorable terms in any collaboration, licensing or other arrangements into which we may enter;
- · obtaining reimbursement or pricing for one or more of our product candidates that supports profitability; and
- attracting, hiring and retaining qualified personnel.

Even if one or more of the product candidates that we develop is approved for commercial sale, we anticipate incurring significant costs associated with launching and commercializing any approved product candidate. We also will have to develop or acquire manufacturing capabilities or continue to contract with CMOs in order to continue development and potential commercialization of our product candidates. For instance, if our costs of manufacturing our drug products are not commercially feasible, then we will need to develop or procure our drug products in a commercially feasible manner to successfully commercialize any future approved product, if any. Additionally, if we are not able to generate revenue from the sale of any approved products, we may never become profitable.

Raising additional capital may cause dilution to our stockholders, restrict our operations or require us to relinquish rights to our technologies or product candidates. Future debt obligations may expose us to risks that could adversely affect our business, operating results and financial condition and may result in further dilution to our stockholders.

To the extent that we raise additional capital through the sale of equity, convertible debt or other securities convertible into equity, the ownership interest of our stockholders will be diluted, and the terms of these new securities may include liquidation or

other preferences that adversely affect rights of our stockholders. Debt financing, if available at all, would likely involve agreements that include covenants limiting or restricting our ability to take specific actions, such as incurring additional debt, making capital expenditures, making additional product acquisitions or declaring dividends. For instance, our term loan facility with Perceptive Credit Holdings II, LP limits additional indebtedness, liens, guaranties, mergers and consolidations, substantial asset sales, investments and loans, sale and leasebacks, transactions with affiliates and fundamental changes. If we raise additional funds through strategic collaborations or licensing arrangements with third parties, we may have to relinquish valuable rights to our product candidates or future revenue streams or grant licenses on terms that are not favorable to us. We cannot be assured that we will be able to obtain additional funding if and when necessary to fund our entire portfolio of product candidates to meet our projected plans. If we are unable to obtain funding on a timely basis, we may be required to delay or discontinue one or more of our development programs or the commercialization of any product candidates or be unable to expand our operations or otherwise capitalize on potential business opportunities, which could materially harm our business, financial condition, and results of operations.

We also have historically received funds from state and federal government grants for research and development. The grants have been, and any future government grants and contracts we may receive may be, subject to the risks and contingencies set forth below under this section titled "—Risks Related to the Development of Our Product Candidates—Reliance on government funding for our programs may add uncertainty to our research and commercialization efforts with respect to those programs that are tied to such funding and may impose requirements that limit our ability to take certain actions, increase the costs of commercialization and production of product candidates developed under those programs and subject us to potential financial penalties, which could materially and adversely affect our business, financial condition and results of operations." Although we might apply for government contracts and grants in the future, we cannot assure you that we will be successful in obtaining additional grants for any product candidates or programs.

## Changes in interpretation or application of U.S. GAAP may adversely affect our operating results.

We prepare our financial statements to conform to U.S. GAAP. These principles are subject to interpretation by the Financial Accounting Standards Board, or FASB, American Institute of Certified Public Accountants, the SEC and various other regulatory or accounting bodies. A change in interpretations of, or our application of, these principles can have a significant effect on our reported results and may even affect our reporting of transactions completed before a change is announced. In addition, when we are required to adopt new accounting standards, our methods of accounting for certain items may change, which could cause our results of operations to fluctuate from period to period and make it more difficult to compare our financial results to prior periods.

## Risks Related to the Development of Our Product Candidates

#### Manufacturing difficulties, disruptions or delays could limit supply of our drug candidates and adversely affect our clinical trials.

We completed the construction of our cGMP manufacturing facility during the second quarter of 2018 and we are developing the capability to manufacture product candidates for use in the conduct of our clinical trials. We may not be able to manufacture product candidates or there may be substantial technical or logistical challenges to supporting manufacturing demand for product candidates. We may also fail to comply with cGMP requirements and standards which would not enable us to utilize the manufacturing facility to make clinical trial supply.

We plan to rely in part on third-party manufacturers, and their responsibilities will include purchasing from third-party suppliers the materials necessary to produce our product candidates for our clinical trials and regulatory approval. We expect there to be a limited number of suppliers for some of the raw materials that we expect to use to manufacture our product candidates, and we may not be able to identify alternative suppliers to prevent a possible disruption of the manufacture of our product candidates for our clinical trials, and, if approved, ultimately for commercial sale.

Although we generally do not expect to begin a clinical trial unless we believe we have a sufficient supply of a product candidate to complete the trial, any significant delay or discontinuity in the supply of a product candidate, or the raw materials or other material components in the manufacture of the product candidate, could delay completion of our clinical trials and potential timing for regulatory approval of our product candidates, which would harm our business and results of operations. We do not yet have sufficient information to reliably estimate the cost of the commercial manufacturing of our product candidates and our current costs to manufacture our drug products may not be commercially feasible, and the actual cost to manufacture our product candidates could materially and adversely affect the commercial viability of our product candidates. As a result, we may never be able to develop a commercially viable product.

In addition, as a drug candidate manufacturer with one facility, we are exposed to the following additional risks:

· capacity of manufacturing facilities;

- contamination of drug candidates in the manufacturing process;
- natural or other disasters, including hurricanes, earthquakes, volcanoes or fires;
- labor disputes or shortages, including the effects of health emergencies or natural disasters;
- compliance with regulatory requirements;
- changes in forecasts of future demand;
- · timing and actual number of production runs and production success rates and yields;
- contractual disputes with our suppliers and contract manufacturers;
- timing and outcome of product quality testing;
- power failures and/or other utility failures;
- · breakdown, failure, substandard performance or improper installation or operation of equipment;
- following BLA approval, a change in the manufacturing site could require additional approval from the FDA. This approval would require new testing and compliance inspections;
- we may be unable to timely formulate and manufacture our product or produce the quantity and quality required to meet our clinical and commercial needs, if any;
- as a drug candidate manufacturers, we are subject to ongoing periodic unannounced inspection by the FDA and some state agencies to ensure strict compliance with cGMPs and other U.S. and corresponding foreign requirements, and we carry the risk of non-compliance with these regulations and standards;

Each of these risks could delay our clinical trials, the approval, if any, of our product candidates or equivalent regulatory agencies outside the U.S., or the commercialization of our product candidates or result in higher costs or deprive us of potential product revenue. In addition, we rely on third parties to perform release testing on our product candidates prior to delivery to patients. If these tests are not appropriately conducted and test data are not reliable, patients could be put at risk of serious harm, which could result in product liability suits.

Clinical trials are costly, time consuming and inherently risky, and we may fail to demonstrate safety and efficacy to the satisfaction of applicable regulatory authorities, and may never obtain regulatory approval for, or successfully commercialize certain of our product candidates.

Clinical development is expensive, time consuming and involves significant risk. We cannot guarantee that any clinical trials will be conducted as planned or completed on schedule, if at all. A failure of one or more clinical trials can occur at any stage of development. Events that may prevent successful or timely completion of clinical development include but are not limited to:

- inability to generate satisfactory preclinical, toxicology or other in vivo or in vitro data or to develop diagnostics capable of supporting the initiation or continuation of clinical trials;
- delays in reaching agreement on acceptable terms with clinical research organizations, or CROs, and clinical trial sites, the terms of which can be subject to
  extensive negotiation and may vary significantly among different CROs and clinical trial sites;
- delays or failure in obtaining required institutional review board, or IRB, approval at each clinical trial site;
- failure to obtain or delays in obtaining a permit from regulatory authorities to conduct a clinical trial;
- delays in recruiting or failure to recruit sufficient eligible patients in our clinical trials;
- failure by clinical sites or CROs or other third parties to adhere to clinical trial requirements;
- failure by our clinical sites, CROs or other third parties to perform in accordance with the good clinical practices requirements of the FDA or applicable foreign regulatory guidelines;
- · patients withdrawing from our clinical trials;
- · adverse events or other issues of concern significant enough for the FDA, or comparable foreign regulatory authority, to put an IND, on clinical hold;
- occurrence of adverse events associated with our product candidates;
- · changes in regulatory requirements and guidance that require amending or submitting new clinical protocols;
- · the cost of clinical trials of our product candidates;

- negative or inconclusive results from our clinical trials which may result in us deciding, or regulators requiring us, toconduct additional clinical trials or abandon development programs in other ongoing or planned indications for a product candidate; and
- delays in reaching agreement on acceptable terms with third-party manufacturers and the time for manufacture of sufficient quantities of our product candidates for use in clinical trials.

Any inability to successfully complete clinical development and obtain regulatory approval for one or more of our product candidates could result in additional costs to us or impair our ability to generate revenue. In addition, if we make manufacturing or formulation changes to our product candidates, we may need to conduct additional nonclinical studies and/or clinical trials to show that the results obtained from such new formulation are consistent with previous results obtained. Clinical trial delays could also shorten any periods during which our products have patent protection and may allow competitors to develop and bring products to market before we do, which could impair our ability to successfully commercialize our product candidates and may harm our business and results of operations.

#### The approach we are taking to discover and develop next generation immunotoxin therapies (called ETBs) is unproven and may never lead to marketable products.

The scientific discoveries that form the basis for our efforts to discover and develop our product candidates are relatively recent. To date, neither we nor any other company has received regulatory approval to market therapeutics utilizing ETBs. The scientific evidence to support the feasibility of developing drugs based on these discoveries is both preliminary and limited. Successful development of ETB therapeutic products by us will require solving a number of issues, including identifying appropriate receptor targets, screening for and selecting potent and safe ETB drug candidates, developing a commercially feasible manufacturing process, successfully completing all required preclinical studies and clinical trials, successfully implementing all other requirements that may be mandated by regulatory agencies from clinical development through post-marketing periods, ensuring intellectual property protection in any territory where an ETB may be commercialized and commercializing an ETB successfully in a competitive product landscape. In addition, any product candidates that we develop may not demonstrate in patients the biological and pharmacological properties ascribed to them in laboratory and preclinical testing, and they may interact with human biological systems in unforeseen, ineffective or even harmful ways. If we do not successfully develop and commercialize one or more product candidates based upon this technological approach, we may not become profitable and the value of our capital stock may decline.

Further, our focus on ETB technology for developing product candidates as opposed to multiple, more proven technologies for drug development increases the risk associated with our business. If we are not successful in developing an approved product using ETB technology, we may not be able to identify and successfully implement an alternative product development strategy. In addition, work by other companies pursuing similar immunotoxin technologies may encounter setbacks and difficulties that regulators and investors may attribute to our product candidates, whether appropriate or not.

We are heavily dependent on the success of our product candidates, the most advanced of which is in the early stages of clinical development. Our ETB therapeutic product candidates are based on a relatively novel technology, which makes it difficult to predict the time and cost of development and of subsequently obtaining regulatory approval, if at all. Some of our product candidates have produced results in preclinical settings to date, or for other indications than those for which we contemplate conducting development and seeking FDA approval, and we cannot give any assurance that we will generate data for any of our product candidates sufficient to receive regulatory approval in our planned indications, which will be required before they can be commercialized. To date, no ETB therapeutics have been approved in the United States or elsewhere worldwide.

We have concentrated our research and development efforts to date on a limited number of product candidates based on our ETB therapeutic platform and identifying our initial targeted disease indications. We have invested substantially all of our efforts and financial resources to identify, acquire and develop our portfolio of product candidates. Our future success is dependent on our ability to successfully further develop, obtain regulatory approval for, and commercialize one or more product candidates. We currently generate no revenue from sales of any products, and we may never be able to develop or commercialize a product candidate. We currently have one ETB product candidate, MT-3724, in three Phase II combination studies, a second ETB product candidate, MT-5111, for which an IND was accepted by the FDA and a Phase I study will be initiated in the third quarter of 2019, and the remainder of our product candidates are in preclinical development. MT-3724 has only been administered in patients with non-Hodgkin's lymphoma. This is only one of the multiple indications for which we plan to develop this product candidate. There can be no assurance that we will not experience problems or delays in developing our product candidates and that such problems or delays will not cause unanticipated costs, or that any such development problems can be solved. Additionally, our clinical and preclinical data to date is not validated and we have no way of knowing if after validation our clinical trial data will be complete and consistent. There can be no assurance that the data that we develop for our product candidates in our planned indications will be sufficient to obtain regulatory approval.

None of our ETB product candidates have advanced into a pivotal clinical trial for our proposed indications and it may be yearsbefore any such clinical trial is initiated and completed, if at all. We are not permitted to market or promote any of our product candidates before we receive regulatory approval from the FDA or comparable foreign regulatory authorities, and we may never receive such regulatory approval for any of our product candidates. We cannot be certain that any of our product candidates will be successful in clinical trials or receive regulatory approval. Further, our product candidates may not receive regulatory approval even if they are successful in clinical trials. If we do not receive regulatory approvals for our product candidates, we may not be able to continue our operations.

Additionally, the FDA and comparable foreign regulatory authorities have relatively limited experience with ETB therapeutics. No regulatory authority has granted approval to any person or entity, including us, to market or commercialize ETB therapeutics, which may increase the complexity, uncertainty and length of the regulatory approval process for our product candidates. If our ETB product candidates fail to prove to be safe, effective or commercially viable, our product candidate pipeline would have little, if any, value, which would have a material adverse effect on our business, financial condition or results of operations.

The clinical trial and manufacturing requirements of the FDA, the European Medicines Agency, or the EMA, and other regulatory authorities, and the criteria these regulators use to determine the safety and efficacy of a product candidate, vary substantially according to the type, complexity, novelty and intended use and market of the product candidate. The regulatory approval process for novel product candidates such as ETB therapeutics can be more expensive and take longer than for other, better known or more extensively studied product candidates. It is difficult to determine how long it will take or how much it will cost to obtain regulatory approvals for our product candidates in either the United States or the European Union or how long it will take to commercialize our product candidates, even if approved for marketing. Approvals by the European Commission may not be indicative of what the FDA may require for approval, and vice versa, and different or additional preclinical studies and clinical trials may be required to support regulatory approval in each respective jurisdiction. Delay or failure to obtain, or unexpected costs in obtaining, the regulatory approval necessary to bring a potential product candidate to market could decrease our ability to generate sufficient product revenue, and our business, financial condition, results of operations and prospects may be harmed.

We may find it difficult or fail to enroll patients in our clinical trials given the limited number of patients who have the diseases for which our product candidates are being studied, which could delay or prevent clinical trials of our product candidates.

Identifying and qualifying patients to participate in clinical trials of our ETB product candidates is essential to our success. The timing of our clinical trials depends in part on the rate at which we can recruit patients to participate in clinical trials of our product candidates, and we may experience delays in our clinical trials if we encounter difficulties in enrollment.

The eligibility criteria of our planned clinical trials may further limit the available eligible trial participants as we expect to require that patients have specific characteristics that we can measure or meet the criteria to assure their conditions are appropriate for inclusion in our clinical trials. For instance, our Phase II combination study of MT-3724 with GEMOX includes patients with non-Hodgkin's lymphoma. The estimated incidence of non-Hodgkin's lymphoma in the United States is 74,680 new cases and approximately 19,910 deaths were attributable to non-Hodgkin's B-cell lymphomas in 2018. We may not be able to identify, recruit and enroll a sufficient number of patients to complete our clinical trials in a timely manner because of the perceived risks and benefits of the product candidate under study, the availability and efficacy of competing therapies and clinical trials, and the willingness of physicians to participate in our planned clinical trials. If patients are unwilling to participate in our clinical trials for any reason, the timeline for conducting trials and obtaining regulatory approval of our product candidates may be delayed.

If we experience delays in the completion of, or termination of, any clinical trials of our product candidates, the commercial prospects of our product candidates could be harmed, and our ability to generate product revenue from any of these product candidates could be delayed or prevented. In addition, any delays in completing our clinical trials would likely increase our overall costs, impair product candidate development and jeopardize our ability to obtain regulatory approval relative to our current plans. Any of these occurrences may harm our business, financial condition, and prospects significantly.

Our product candidates may cause undesirable side effects or have other properties that could delay or prevent their regulatory approval, limit the commercial viability of an approved label, or result in significant negative consequences following marketing approval, if any.

Undesirable side effects caused by our product candidates could cause us or regulatory authorities to interrupt, delay, or terminate clinical trials or result in a restrictive label or delay regulatory approval.

In addition, our MT-3724 product candidate has been studied in only a limited number of patients with a confirmed diagnosis of non-Hodgkin's lymphoma, and the most common adverse events were peripheral edema, diarrhea, myalgia, cough, fatigue, constipation, nausea, anemia, stomatitis, pyrexia, dizziness, headache, insomnia, dyspnea, neutropenia, thrombocytopenia, blurry vision, dysphagia, oral pain, chills, pneumonia, dehydration, hypoalbuminemia, hyponatremia, dysgeusia, oropharyngeal pain, and

maculo-papular rash. We may experience a higher rate or severity of adverse events and comparable or higher rates of discontinuation in testing in our future clinical trials. There is no guarantee that additional or more severe side effects will not be identified through ongoing clinical trials of our product candidates for current and other indications. Undesirable side effects and negative results for any of our product candidates may negatively impact the development and potential for approval of our product candidates for their proposed indications.

Additionally, even if one or more of our product candidates receives marketing approval, and we or others later identify undesirable side effects caused by such products, potentially significant negative consequences could result, including but not limited to:

- regulatory authorities may withdraw approvals of such products;
- regulatory authorities may require additional warnings on the label;
- we may be required to create a REMS plan, which could include a medication guide outlining the risks of such side effects for distribution to patients, a communication plan for healthcare providers, and/or other elements to assure safe use;
- we could be sued and held liable for harm caused to patients; and
- · our reputation may suffer.

Any of these events could prevent us from achieving or maintaining market acceptance of a product candidate, even if approved, and could significantly harm its business, results of operations, and prospects.

Our product development program may not discover all possible adverse events that patients who take MT-3724 or our other product candidates may experience. The number of subjects exposed to MT-3724 or our other product candidates and the average exposure time in the clinical development program may be inadequate to detect all adverse events, or chance findings, that may only be detected once the product is administered to more patients and for greater periods of time.

Clinical trials by their nature utilize a sample of the potential patient population. However, with a limited number of subjects and limited duration of exposure, we cannot be fully assured all severe side effects of MT-3724 or our other product candidates will be uncovered. Such severe side effects may only be uncovered with a significantly larger number of patients exposed to the drug. If such safety problems occur or are identified after MT-3724 or another product candidate reaches the market, the FDA, or comparable foreign regulatory authority, may require that we amend the labeling of the product or temporarily cease marketing the product, or may even withdraw approval for the product.

Our ETB therapeutic approach is novel and negative public opinion and increased regulatory scrutiny of ETB-based therapies may damage public perception of the safety of our product candidates and adversely affect our ability to conduct our business or obtain regulatory approvals for our product candidates.

ETB therapy remains a novel technology, with no ETB therapy product approved to date in the United States or elsewhere worldwide. Public perception may be influenced by claims that ETB therapy is unsafe, and ETB therapy may not gain the acceptance of the public or the medical community. In particular, our success will depend upon physicians who specialize in the treatment of the diseases targeted by our product candidates prescribing treatments that involve the use of one or more of our approved product candidates in lieu of, or in addition to, existing treatments with which they are familiar and for which greater clinical data may be available. More restrictive government regulations or negative public opinion regarding ETB-based therapeutics could have an adverse effect on our business, financial condition or results of operations and may delay or impair the development and commercialization of our product candidates or demand for any products we may develop. Serious adverse events in ETB clinical trials for our competitors' products, even if not ultimately attributable to the relevant product candidates, and the resulting publicity, could result in increased government regulation, unfavorable public perception, potential regulatory delays in the testing or approval of our product candidates, stricter labeling requirements for those product candidates that are approved and a decrease in demand for any such product candidates.

Product development involves a lengthy and expensive process with an uncertain outcome, and results of earlier preclinical studies and clinical trials may not be predictive of future clinical trial results.

Clinical testing is expensive and generally takes many years to complete, and the outcome is inherently uncertain. Failure can occur at any time during the clinical trial process. The results of preclinical studies and early clinical trials of our product candidates may not be predictive of the results of larger, later-stage controlled clinical trials. Product candidates that have shown promising results in early-stage clinical trials may still suffer significant setbacks or failure in subsequent clinical trials. Our clinical trials to date have been conducted on a small number of patients in limited numbers of clinical sites for a limited number of indications. We will have to conduct larger, well-controlled trials in our proposed indications to verify the results obtained to date and to support any regulatory submissions for further clinical development. A number of companies in the biopharmaceutical industry have suffered

significant setbacks or failure in advanced clinical trials due to lack of efficacy or adverse safety profiles despite promising results in earlier, smaller clinical trials.

Moreover, clinical data is often susceptible to varying interpretations and analyses. We do not know whether any Phase I, Phase II, Phase III or other clinical trials we may conduct will demonstrate consistent or adequate efficacy and safety with respect to the proposed indication for use sufficient to receive regulatory approval or market our drug candidates.

We may use our financial and human resources to pursue a particular research program or product candidate and fail to capitalize on programs or product candidates that may be more profitable or for which there is a greater likelihood of success.

Because we have limited financial and human resources, we may forego or delay pursuit of opportunities with some programs or product candidates or for other indications that later prove to have greater commercial potential. Our resource allocation decisions may cause us to fail to capitalize on viable commercial products or more profitable market opportunities. Our spending on current and future research and development programs and future product candidates for specific indications may not yield any commercially viable products. We may also enter into additional strategic collaboration agreements to develop and commercialize some of our programs and potential product candidates in indications with potentially large commercial markets. 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 strategic collaborations, 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, or we may allocate internal resources to a product candidate in a therapeutic area in which it would have been more advantageous to enter into a partnering arrangement.

We may face potential product liability, and, if successful claims are brought against us, we may incur substantial liability and costs. If the use or misuse of our product candidates harms patients or is perceived to harm patients even when such harm is unrelated to our product candidates, our regulatory approvals, if any, could be revoked or otherwise negatively impacted and we could be subject to costly and damaging product liability claims. If we are unable to obtain adequate insurance or are required to pay for liabilities resulting from a claim excluded from, or beyond the limits of, our insurance coverage, a material liability claim could adversely affect our financial condition.

The use or misuse of our product candidates in clinical trials and the sale of any products for which we may obtain marketing approval exposes us to the risk of potential product liability claims. Product liability claims might be brought against us by consumers, healthcare providers, pharmaceutical companies or others selling or otherwise coming into contact with our product candidates and approved products, if any. There is a risk that our product candidates may induce adverse events. If we cannot successfully defend against product liability claims, we could incur substantial liability and costs. Some of our ETB therapeutics have shown in clinical trials adverse events, including peripheral edema, diarrhea, myalgia, cough, fatigue, constipation, nausea, anemia, stomatitis, pyrexia, dizziness, headache, insomnia, dyspnea, neutropenia, thrombocytopenia, blurry vision, dysphagia, oral pain, chills, pneumonia, dehydration, hypoalbuminemia, hyponatremia, dysgeusia, oropharyngeal pain, and maculo-papular rash, among others. There is a risk that our future product candidates may induce similar or more severe adverse events. Patients with the diseases targeted by our product candidates may already be in severe and advanced stages of disease and have both known and unknown significant preexisting and potentially life-threatening health risks. During the course of treatment, patients may suffer adverse events, including death, for reasons that may be related to our product candidates. Such events could subject us to costly litigation, require us to pay substantial amounts of money to injured patients, delay, negatively impact or end our opportunity to receive or maintain regulatory approval to market our products, or require us to suspend or abandon our commercialization efforts. Even in a circumstance in which an adverse event is unrelated to our product candidates, the investigation into the circumstance may be time-consuming or inconclusive. These investigations may delay our regulatory approval process or impact a

Although we have product liability insurance covering our clinical trials in the United States for up to \$5.0 million per occurrence up to an aggregate limit of \$5.0 million, our insurance may be insufficient to reimburse us for any expenses or losses we may suffer. We also will likely be required to increase our product liability insurance coverage for the advanced clinical trials that we plan to initiate. If we obtain marketing approval for any of our product candidates, we will need to expand our insurance coverage to include the sale of commercial products. There is no way to know if we will be able to continue to obtain product liability coverage and obtain expanded coverage if we require it, in sufficient amounts to protect us against losses due to liability, on acceptable terms, or at all. We may not have sufficient resources to pay for any liabilities resulting from a claim excluded from, or beyond the limits of, our insurance coverage. Where we have provided indemnities in favor of third parties under our agreements with them, there is also a risk that these third parties could incur liability and bring a claim under such indemnities. An individual may bring a product liability claim against us alleging that one of our product candidates causes, or is claimed to have caused, an injury or is found to be unsuitable for consumer use. Any such product liability claims may include allegations of defects in manufacturing, defects in design, a failure to warn of dangers inherent in the product, negligence, strict liability and breach of warranties. Claims also could be asserted under state consumer protection acts. Any product liability claim brought against us, with or without merit, could result in:

- withdrawal of clinical trial volunteers, investigators, patients or trial sites or limitations on approved indications;
- the inability to commercialize, or if commercialized, decreased demand for, our product candidates;
- if commercialized, product recalls, withdrawals of labeling, marketing or promotional restrictions or the need for product modification;
- initiation of investigations by regulators;
- loss of revenues;
- substantial costs of litigation, including monetary awards to patients or other claimants;
- liabilities that substantially exceed our product liability insurance, which we would then be required to pay ourselves;
- · an increase in our product liability insurance rates or the inability to maintain insurance coverage in the future on acceptable terms, if at all;
- the diversion of management's attention from our business; and
- damage to our reputation and the reputation of our products and our technology.

Product liability claims may subject us to the foregoing and other risks, which could have a material adverse effect on our business, financial condition or results of operations.

## Our international activities, including clinical trials abroad, expose us to various risks, any number of which could harm our business.

We are subject to the risks inherent in engaging in business across national boundaries, due in part to our clinical trials abroad, any one of which could adversely impact our business. In addition to currency fluctuations, these risks include, among other things: economic downturns; changes in or interpretations of local law, governmental policy or regulation; restrictions on the transfer of funds into or out of the country; varying tax systems; and government protectionism. One or more of the foregoing factors could impair our current or future operations and, as a result, harm our overall business.

## Risks Related to Regulatory Approval of Our Product Candidates and Other Legal Compliance Matters

A potential breakthrough therapy designation by the FDA for our product candidates may not lead to a faster development or regulatory review or approval process, and it does not increase the likelihood that our product candidates will receive marketing approval.

We may seek a breakthrough therapy designation from the FDA for some of our product candidates. A breakthrough therapy is defined as a drug or biological product that is intended, alone or in combination with one or more other drugs, to treat a serious or life-threatening disease or condition, and preliminary clinical evidence indicates that the drug or biological 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. For drugs or biological products that have been designated as breakthrough therapies, interaction and communication between the FDA and the sponsor of a clinical trial can help to identify the most efficient path for clinical development while minimizing the number of patients placed in ineffective control regimens. Drugs designated as breakthrough therapies by the FDA could also be eligible for accelerated approval.

Designation as a breakthrough therapy is within the discretion of the FDA. Accordingly, even if we believe one of our product candidates meets the criteria for designation as a breakthrough therapy, the FDA may disagree and instead determine not to make such designation. In any event, the receipt of a breakthrough therapy designation for a product candidate may not result in a faster development process, review or approval compared to drugs considered for approval under conventional or other accelerated FDA procedures and does not assure ultimate approval by the FDA. In addition, even if one or more of our product candidates qualify and are designated as breakthrough therapies, the FDA may later decide that the drugs or biological products no longer meet the conditions for designation and the designation may be rescinded.

We may seek Fast Track designation for one or more of our product candidates, but we might not receive such designation, and even if we do, such designation may not actually lead to a faster development or regulatory review or approval process.

If a product candidate is intended for the treatment of a serious condition and nonclinical or clinical data demonstrate the potential to address unmet medical need for this condition, a product sponsor may apply for FDA Fast Track designation. If we seek Fast Track designation for a product candidate, we may not receive it from the FDA. However, even if we receive Fast Track designation, Fast Track designation does not ensure that we will receive marketing approval or that approval will be granted within any particular time frame. We may not experience a faster development or regulatory review or approval process with Fast Track designation compared to conventional FDA procedures. In addition, the FDA may withdraw Fast Track designation if 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.

Even if we obtain regulatory approval for a product, we will remain subject to ongoing regulatory requirements. Maintaining compliance with ongoing regulatory requirements may result in significant additional expense to us, and any failure to maintain such compliance could subject us to penalties and cause our business to suffer.

If any of our product candidates are approved, we will be subject to ongoing regulatory requirements with respect to manufacturing, labeling, packaging, storage, advertising, promotion, sampling, record-keeping, conduct of post-marketing clinical trials and submission of safety, efficacy and other post-approval information, including both federal and state requirements in the United States and requirements of comparable foreign regulatory authorities.

Manufacturers and manufacturers' facilities are required to continuously comply with FDA and comparable foreign regulatory authority requirements, including ensuring that quality control and manufacturing procedures conform to current good manufacturing practices, or cGMP, regulations and corresponding foreign regulatory manufacturing requirements. As such, we and our CMOs will be subject to continual review and inspections to assess compliance with cGMP and adherence to commitments made in any New Drug Application, or NDA, or marketing authorization application.

Any regulatory approvals that we receive for our product candidates may be subject to limitations on the approved indicated uses for which the product candidate may be marketed or to the conditions of approval, or contain requirements for potentially costly post-marketing testing, including Phase IV clinical trials, and surveillance to monitor the safety and efficacy of the product candidate. In addition, if the FDA, EMA or a comparable foreign regulatory authority approves any of our drug candidates, the manufacturing processes, labeling, packaging, distribution, adverse event reporting, storage, advertising, promotion and record keeping for the products will be subject to extensive and ongoing regulatory requirements. Any new legislation addressing drug safety issues could result in delays in product development or commercialization, or increased costs to assure compliance. If our original marketing approval for a product candidate was obtained through an accelerated approval pathway, we could be required to conduct a successful post-marketing clinical trial in order to confirm the clinical benefit for our products. An unsuccessful post-marketing clinical trial or failure to complete such a trial could result in the withdrawal of marketing approval.

If a regulatory agency discovers previously unknown problems with a product, such as adverse events of unanticipated severity or frequency, or problems with the facility where the product is manufactured, or disagrees with the promotion, marketing or labeling of a product, the regulatory agency may impose restrictions on that product or us, including requiring withdrawal of the product from the market. If we fail to comply with applicable regulatory requirements, a regulatory agency or enforcement authority may, among other things:

- · impose restrictions on the marketing or manufacturing of the product, complete withdrawal of the product from the market or product recalls;
- impose fines or issue warning letters;
- issue consent decrees, injunctions or impose civil or criminal penalties;
- suspend or withdraw regulatory approval;

- suspend any of our ongoing clinical trials;
- refuse to approve pending applications or supplements to approved applications submitted by us;
- impose restrictions on our operations, including closing our CMOs' facilities; or
- require product seizure or detention, recalls or refuse to permit the import or export of products.

Any government investigation of alleged violations of law would be expected to require us to expend significant time and resources in response and could generate adverse publicity. Any failure to comply with ongoing regulatory requirements may significantly and adversely affect our ability to develop and commercialize our products and our value and our operating results would be adversely affected. In addition, regulatory authorities' policies (such as those of the FDA or EMA) may change and additional government regulations may be enacted that could prevent, limit or delay regulatory approval of our drug candidates. If we are slow or unable to adapt to changes in existing requirements or the adoption of new requirements or policies, or if we are otherwise not able to maintain regulatory compliance, we may lose any marketing approval that we may have obtained, which would adversely affect our business, prospects and ability to achieve or sustain profitability.

#### Healthcare legislative reform measures may have a material adverse effect on our business, financial condition or results of operations.

In the United States, there have been and continue to be a number of legislative initiatives to contain healthcare costs. For example, in March 2010, the Health Care and Education Reconciliation Act of 2010, which amended the Patient Protection and Affordable Care Act, or collectively the ACA, was passed. The ACA was intended to substantially change the way health care is financed by both governmental and private insurers, and significantly impacts the U.S. pharmaceutical industry. The ACA, among other things, addresses a new methodology by which rebates owed by manufacturers under the Medicaid Drug Rebate Program are calculated for drugs that are inhaled, infused, instilled, implanted or injected, increases the minimum Medicaid rebates owed by manufacturers under the Medicaid Drug Rebate Program and extends the rebate program to individuals enrolled in Medicaid managed care organizations, establishes annual fees and taxes on manufacturers of specified branded prescription drugs, and promotes a new Medicare Part D coverage gap discount program.

The current administration supports a repeal of the ACA and an Executive Order has been signed mandating that federal agencies try to waive or delay requirements of the ACA that impose economic or regulatory burdens on states, families, the health-care industry and others. The Executive Order also declares that the administration will seek the "prompt repeal" of the law and that the government should prepare to "afford the States more flexibility and control to create a more free and open healthcare market." At this time, the immediate impact of the Executive Order is not clear.

In addition, other legislative changes have been proposed and adopted in the United States since the ACA was enacted, and 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 or lower pricing for our product candidates or additional pricing pressures.

We expect that the ACA, 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 will receive for any approved product. Any reduction in payments from Medicare or other government programs may result in a similar reduction in payments from private payors. The implementation of cost containment measures or other healthcare reforms may prevent us from being able to generate revenue, attain profitability, or commercialize our products.

Legislative and regulatory proposals have been made to expand post-approval requirements and restrict sales and promotional activities for pharmaceutical products. We cannot be sure whether additional legislative changes will be enacted, or whether FDA regulations, guidance or interpretations will be changed, or what the impact of such changes on the marketing approvals, if any, of our product candidates, may be. In addition, increased scrutiny by the U.S. Congress of the FDA's approval process may significantly delay or prevent marketing approval, as well as subject us to more stringent product labeling and post-marketing conditions and other requirements.

We may be subject, directly or indirectly, to federal and state healthcare fraud and abuse laws, false claims laws, and health information privacy and security laws. If we are unable to comply, or have not fully complied, with such laws, we could face substantial penalties.

If we obtain FDA approval for any of our product candidates and begin commercializing those products in the United States, our operations will be subject to various federal and state fraud and abuse laws, including, the federal Anti-Kickback Statute, the federal

False Claims Act, and physician sunshine laws and regulations. These laws may impact, among other things, our proposed sales, marketing and education programs. In addition, we may be subject to patient privacy regulation by both the federal government and the states in which we conduct our business. The laws that may affect our ability to operate include:

- the federal Anti-Kickback Statute, which prohibits, among other things, persons from knowingly and willfully soliciting, receiving, offering or paying remuneration, directly or indirectly, to induce, or in return for, the purchase or recommendation of an item or service reimbursable under a federal healthcare program, such as the Medicare and Medicaid programs;
- federal civil and criminal false claims laws and civil monetary penalty laws, which prohibit, among other things, individuals or entities from knowingly presenting, or causing to be presented, claims for payment from Medicare, Medicaid or other third-party payors that are false or fraudulent;
- the Health Insurance Portability and Accountability Act of 1996, which created new federal criminal statutes that prohibit executing a scheme to defraud any healthcare benefit program and making false statements relating to healthcare matters;
- the federal physician payment transparency requirements, sometimes referred to as the "Sunshine Act" under the ACA, which requires manufacturers of drugs, devices, biologics and medical supplies to report annually to the U.S. Department of Health and Human Services information related to payments and other transfers of value to physicians, other healthcare providers 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
- state law equivalents of each of the above federal laws, such as anti-kickback and false claims laws that may apply to items or services reimbursed by any third-party payor, including governmental and private payors, to comply with the pharmaceutical industry's voluntary compliance guidelines and the relevant compliance guidance promulgated by the federal government, or otherwise restrict payments that may be made to healthcare providers and other potential referral sources; state laws that require drug manufacturers to report information related to payments and other transfers of value to physicians and other healthcare providers or marketing expenditures, and state laws governing the privacy and security of health information in specified circumstances, many of which differ from each other in significant ways and may not have the same effect, thus complicating compliance efforts.

Because of the breadth of these laws and the narrowness of the statutory exceptions and safe harbors available, it is possible that some of our business activities could be subject to challenge under one or more of such laws. In addition, recent health care reform legislation has strengthened these laws. For example, the Health Care Reform Law, among other things, amends the intent requirement of the federal Anti-Kickback Statute and criminal healthcare fraud statute. A person or entity no longer needs to have actual knowledge of this statute or specific intent to violate it. Moreover, the ACA provides that the government may assert that a claim including items or services resulting from a violation of the federal Anti-Kickback Statute constitutes a false or fraudulent claim for purposes of the False Claims Act.

If our operations are found to be in violation of any of the laws described above or any other governmental regulations that apply to us, we may be subject to penalties, including civil and criminal penalties, damages, fines, exclusion from participation in government health care programs, such as Medicare and Medicaid, imprisonment, and the curtailment or restructuring of our operations, any of which could adversely affect our ability to operate our business and our results of operations.

Reliance on government funding for our programs may add uncertainty to our research and commercialization efforts with respect to those programs that are tied to such funding and may impose requirements that limit our ability to take certain actions, increase the costs of commercialization and production of product candidates developed under those programs and subject us to potential financial penalties, which could materially and adversely affect our business, financial condition and results of operations.

During the course of our development of our lead product candidate, we have been funded in significant part through state grants, including but not limited to the substantial funding we have received from the Cancer Prevention & Research Institute of Texas, or CPRIT. We entered our first CPRIT award grant contract, or the 2012 CPRIT Agreement, on November 7, 2012. On September 18, 2018, we entered into a second CPRIT award grant contract for our CD38 targeted ETB program, or the "2018 CPRIT Agreement". In addition to the funding we have received to date, we have applied and intend to continue to apply for federal and state grants to receive additional funding in the future, which may or may not be successful. Contracts and grants funded by the U.S. government, state governments and their related agencies, including our contracts with the State of Texas pertaining to funds we have already received, include provisions that reflect the government's substantial rights and remedies, many of which are not typically found in commercial contracts, including powers of the government to:

- require repayment of all or a portion of the grant proceeds, in certain cases with interest, in the event we violate certain covenants pertaining to various matters
  that include any potential relocation outside of the State of Texas, failure to achieve certain milestones or to comply with terms relating to use of grant
  proceeds, or failure to comply with certain laws;
- terminate agreements, in whole or in part, for any reason or no reason;
- reduce or modify the government's obligations under such agreements without the consent of the other party;
- claim rights, including certain intellectual property rights, in products and data developed under such agreements;
- audit contract-related costs and fees, including allocated indirect costs;
- suspend the contractor or grantee from receiving new contracts pending resolution of alleged violations of procurement laws or regulations;
- impose the State of Texas or U.S. manufacturing requirements for products that embody inventions conceived or first reduced to practice under such agreements;
- · impose the qualifications for the engagement of manufacturers, suppliers and other contractors as well as other criteria for reimbursements;
- suspend or debar the contractor or grantee from doing future business with the government;
- control and potentially prohibit the export of products;
- · pursue criminal or civil remedies under the False Claims Act, False Statements Act and similar remedy provisions specific to government agreements; and
- limit the government's financial liability to amounts appropriated by the State of Texas on a fiscal-year basis, thereby leaving some uncertainty about the future availability of funding for a program even after it has been funded for an initial period.

In addition to those powers set forth above, the government funding we may receive could also impose requirements to make payments based upon sales of our products in the future. For example, under the terms of our 2018 CPRIT Award, we are required to pay CPRIT a percentage of our revenues from sales of products directly funded by CPRIT, or received from our licensees or sub licensees, at a percentage in the low to mid-single digits until the aggregate amount of such payments equals 400% of the funds we receive from CPRIT, and thereafter at a rate of one-half percent.

We may not have the right to prohibit the State of Texas or, if relevant under possible future federal grants, the U.S. government, from using certain technologies developed by us, and we may not be able to prohibit third-party companies, including our competitors, from using those technologies in providing products and services to the U.S. government. The U.S. government generally takes the position that it has the right to royalty-free use of technologies that are developed under U.S. government contracts. These and other provisions of government grants may also apply to intellectual property we license now or in the future.

In addition, government contracts and grants normally contain additional requirements that may increase our costs of doing business, reduce our profits and expose us to liability for failure to comply with these terms and conditions. These requirements include, for example:

- specialized accounting systems unique to government contracts and grants;
- mandatory financial audits and potential liability for price adjustments or recoupment of government funds after such funds have been spent;
- · public disclosures of certain contract and grant information, which may enable competitors to gain insights into our research program; and
- mandatory socioeconomic compliance requirements, including labor standards, non-discrimination and affirmative action programs and environmental
  compliance requirements.

If we fail to maintain compliance with any such requirements that may apply to us now or in the future, we may be subject to potential liability and to termination of our contracts.

If we fail to comply with environmental, health and safety laws and regulations, we could become subject to fines or penalties or incur costs that could have a material adverse effect on our business, financial condition or results of operations.

Our research and development activities and our third-party manufacturers' and suppliers' activities involve the controlled storage, use, and disposal of hazardous materials, including the components of our product candidates and other hazardous compounds. We and our manufacturers and suppliers are subject to laws and regulations governing the use, manufacture, storage, handling, and disposal of these hazardous materials. In some cases, these hazardous materials and various wastes resulting from their use are stored at our and our manufacturers' facilities pending their use and disposal. We cannot eliminate the risk of contamination, which could cause an interruption of our commercialization efforts, research and development efforts and business operations; environmental damage resulting in costly clean-up; and liabilities under applicable laws and regulations governing the use, storage, handling, and disposal of these materials and specified waste products. Although we believe that the safety procedures utilized by us and our third-party manufacturers for handling and disposing of these materials generally comply with the standards prescribed by these laws and regulations, we cannot guarantee that this is the case or eliminate the risk of accidental contamination or injury from these materials. In such an event, we may be held liable for any resulting damages and such liability could exceed our resources and state or federal or other applicable authorities may curtail our use of specified materials and/or interrupt our business operations. Furthermore, environmental laws and regulations are comple x, change frequently, and have tended to become more stringent. We cannot predict the impact of such changes and cannot be certain of our future compliance. We do not currently carry biological or hazardous waste insurance coverage.

Inadequate funding for the FDA, the SEC and other government agencies could hinder their ability to hire and retain key leadership and other personnel, prevent our product candidates from being developed or commercialized in a timely manner or otherwise prevent those agencies from performing normal business functions on which the operation of our business rely, which could negatively impact our business.

The ability of the FDA to review and approve new products can be affected by a variety of factors, including government budget and funding levels, ability to hire and retain key personnel and accept the payment of user fees, and statutory, regulatory, and policy changes. Average review times at the agency have fluctuated in recent years as a result. In addition, government funding of the SEC and other government agencies on which our operations may rely, including those that fund research and development activities is subject to the political process, which is inherently fluid and unpredictable.

Disruptions at the FDA and other agencies may also slow the time necessary for new drugs to be reviewed and/or approved by necessary government agencies, which would adversely affect our business. For example, over the last several years, the US government has shut down several times, including from December 22, 2018 through January 25, 2019, and certain regulatory agencies, such as the FDA and the SEC, have had to furlough critical FDA, SEC and other government employees and stop critical activities. If a prolonged government shutdown occurs, it could significantly affect the ability of the FDA to timely review and process our regulatory submissions, which could have a material adverse effect on our business. Further, in our operations as a public company, future government shutdowns could impact our ability to access the public markets and obtain necessary capital in order to properly capitalize and continue our operations.

## **Risks Related to Our Intellectual Property**

Our ability to compete effectively may decline if we are unable to establish intellectual property rights or if our intellectual property rights are inadequate to protect our ETB technology, present and future product candidates and related processes for our developmental pipeline.

We rely or will rely upon a combination of patents, trade secret protection, and confidentiality agreements to protect our intellectual property related to our technologies and product candidates. Our commercial success and viability depend in large part on our and any current and potential future licensors' ability to obtain, maintain and enforce patent and other intellectual property protections in the United States, Europe and other countries worldwide with respect to our current and future proprietary technologies and product candidates. If we or our current or future collaboration partners do not adequately protect such intellectual property, competitors may be able to use our technologies and erode or negate any competitive advantage we may have, which could materially harm our business, negatively affect our position in the marketplace, limit our ability to commercialize product candidates and delay or render impossible our achievement of profitability.

Our strategy and future prospects are based, in particular, on our patent portfolio. We and our current and future collaboration partners or licensees will best be able to protect our proprietary ETB technologies, product candidates and their uses from unauthorized use by third parties to the extent that valid and enforceable patents, other regulatory exclusivities or effectively protected trade secrets, cover them. We have sought to protect our proprietary position by filing patent applications in the United States and elsewhere worldwide related to our proprietary ETB technologies, product candidates and methods of use that are important to our business. This process is expensive and time consuming, and we may not be able to file and prosecute all necessary or desirable patent applications at a reasonable cost or in a timely manner. 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 meaningful patent protection.

Intellectual property rights have limitations and do not necessarily address all potential threats to our competitive advantage. Our ability to obtain patent protection for our proprietary technologies, product candidates and their uses is uncertain, and the degree of future protection afforded by our intellectual property rights is uncertain due to a number of factors, including, but not limited to:

- we or our current or future collaboration partners may not have been the first to make the inventions covered by pending patent applications or issued patents;
- we or our current or future collaboration partners may not have been the first to file patent applications covering our ETB technology, product candidates, compositions or their uses;
- · others may independently develop identical, similar or alternative methods, products, product candidates or compositions and uses thereof;
- we or our current or future collaboration partners' disclosures in patent applications may not be sufficient to meet the statutory requirements for patentability;
- any or all of our or our current or future collaboration partners' pending patent applications may not result in issued patents;
- we or our current or future collaboration partners may not seek or obtain patent protection in countries that may eventually provide us with a significant business opportunity;
- any patents issued to us or our current or future collaboration partners may not provide a basis for commercially viable products, may not provide any
  competitive advantages or may be successfully challenged by third parties;
- · we or our current or future collaboration partners' products, product candidates, compositions, methods or uses thereof may not be patentable;
- others may design around our or our current or future collaboration partners' patent claims to produce competitive products or uses which fall outside of the scope of our patents or other intellectual property rights;
- · others may identify prior art or other bases which could invalidate our or our current or future collaboration partners' patents;
- our competitors might conduct research and development activities in the United States and other countries that provide a safe harbor from patent infringement claims for certain research and development activities, as well as in countries where we or our current or future collaboration partners do not have patent rights, and then use the information learned from such activities to develop competitive products for sale in major commercial markets; or
- · we or our current or future collaboration partners may not develop additional proprietary technologies or products that are patentable.

Further, the patent position of biotechnology and pharmaceutical companies generally is highly uncertain and involves complex legal and factual questions for which legal principles remain unsolved. The patent applications that we own or in-license may fail to result in issued patents with claims that cover our product candidates or their uses in the United States or in other foreign countries. There is no assurance that all potentially relevant prior art relating to our patents and patent applications has been found, which can invalidate a patent or prevent a patent from issuing from a pending patent application. Even if patents do successfully issue, and even if such patents cover our product candidates or their uses, third parties may challenge their validity, enforceability or scope, which may result in such patents being narrowed, found unenforceable or invalidated. Furthermore, even if they are unchallenged, our patents and patent applications may not adequately protect our intellectual property, provide exclusivity for our product candidates or prevent others from designing around our claims. Any of these outcomes could impair our ability to prevent competition from third parties, which may have an adverse impact on our business.

We, independently or together with our licensors, have filed several patent applications covering various aspects of our ETB technology, product candidates and associated assays and uses. We cannot offer any assurances about which, if any, patents will issue, the breadth of any such patent or whether any issued patents will be found invalid and unenforceable or will be threatened by third parties. Any successful opposition or challenge to these patents or any other patents owned by or licensed to us after patent issuance could deprive us of rights necessary for the successful commercialization of any product candidates that we may develop. Further, if we encounter delays in regulatory approvals, the period of time during which we could market a product candidate under patent protection could be reduced.

If we cannot obtain and maintain effective protection of exclusivity from our regulatory efforts and intellectual property rights, including patent protection or data or market exclusivity for our product candidates or their uses, we may not be able to compete effectively, and our business and results of operations would be harmed.

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

Filing, prosecuting and defending patents on product candidates in all countries throughout the world would be prohibitively expensive. In addition, the laws of some foreign countries do not protect intellectual property rights to the same extent as federal and state laws in the United States. Competitors may use our technologies in jurisdictions where we have not obtained patent protection to develop our own products and may also export infringing products to territories where we have patent protection, but enforcement is not as strong as that in the United States. These products may compete with our products, and our patents or other intellectual property rights may not be effective or sufficient to prevent them from competing.

Many companies have encountered significant problems in protecting and defending intellectual property rights in foreign jurisdictions. The legal systems of some countries, particularly some developing countries, do not favor the enforcement of patents, trade secrets and other intellectual property protection, particularly those relating to healthcare, medicine, or biotechnology products, which could make it difficult for us to stop the infringement of our patents or marketing of competing products in violation of our proprietary rights generally. Proceedings to enforce our patent rights in foreign jurisdictions, whether or not successful, could result in substantial costs and divert our efforts and attention from other aspects of our business, could put our patents at risk of being invalidated or interpreted narrowly and our patent applications at risk of not interpreted narrowly and our patent applications at risk of not patent and could provoke third parties to assert claims against us. We may not prevail in any lawsuits that we 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.

## We may not have sufficient patent terms and regulatory exclusivity protections for our product candidates to effectively protect our competitive position.

Patents have a limited term. In the United States and most jurisdictions worldwide, the statutory expiration of a non-provisional patent is generally 20 years after it is first filed. Although various extensions may be available, the life of a patent, and the protection it affords, is limited. Even if patents covering our technologies, product candidates and associated uses are obtained, once the patent life has expired for a product candidate, we may be open to competition from generic, biosimilar or biobetter medications.

Patent term extensions under the Hatch-Waxman Act in the United States, and regulatory extensions in Japan and certain other countries, and under Supplementary Protection Certificates in Europe, may be available to extend the patent or market or data exclusivity terms of our product candidates depending on the timing and duration of the regulatory review process relative to patent term. In addition, upon issuance in the United States, any patent term may be adjusted based on specified delays during patent prosecution caused by the applicant(s) or the United States Patent and Trademark Office, or the USPTO. We will likely rely on patent term extensions, and we cannot provide any assurances that any such patent term extensions will be obtained and, if so, for how long. As a result, we may not be able to maintain exclusivity for our product candidates for an extended period after regulatory approval, if any, which would negatively impact our business, financial condition, results of operations and prospects. If we do not have sufficient

patent terms or regulatory exclusivity to protect our product candidates, our business and results of operations will be adversely affected.

Changes in U.S. patent law could diminish the value of patents in general, thereby impairing our ability to protect our products, and recent patent reform legislation could increase the uncertainties and costs surrounding the prosecution of our patent applications and the enforcement or defense of our issued patents.

As is the case with other biotechnology companies, our success is heavily dependent on patents. Obtaining and enforcing patents in the biotechnology industry involve both technological and legal complexity, and is therefore costly, time-consuming and inherently uncertain. In addition, the United States has recently enacted and is currently implementing wide-ranging patent reform legislation. Recent U.S. Supreme Court rulings have narrowed the scope of patent protection available in specified circumstances and weakened the rights of patent owners in specified situations. In addition to increasing uncertainty with regard to our ability to obtain patents in the future, this combination of events has created uncertainty with respect to the value of patents, once obtained. Depending on decisions by the U.S. Congress, the federal courts, and the USPTO, the laws and regulations governing patents could change in unpredictable ways that would weaken our ability to obtain new patents or to enforce our existing patents and patents that we might obtain in the future.

For our U.S. patent applications containing a claim not entitled to priority before March 16, 2013, there is a greater level of uncertainty in the patent law. On September 16, 2011, the Leahy-Smith America Invents Act, or the Leahy-Smith Act, was signed into law. The Leahy-Smith Act includes a number of significant changes to U.S. patent law. These include provisions that affect the way patent applications are prosecuted and may also affect patent litigation. The USPTO has promulgated regulations and developed procedures to govern administration of the Leahy-Smith Act, and many of the substantive changes to patent law associated with the Leahy-Smith Act, and in particular, the first inventor to file provisions, did not come into effect until March 16, 2013. 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 issued patents, all of which could have a material adverse effect on our business, financial condition or results of operations.

An important change introduced by the Leahy-Smith Act is that, as of March 16, 2013, the United States transitioned to a "first-inventor-to-file" system for deciding which party should be granted a patent when two or more patent applications are filed by different parties claiming the same invention. A third party that filed or files a patent application in the USPTO after March 16, 2013 but before we file an application could therefore be awarded a patent covering an invention of ours even if we had made the invention before it was made by the third party. This will require us to be cognizant going forward of the time from invention to filing of a patent application. Furthermore, our ability to obtain and maintain valid and enforceable patents depends on whether the differences between our technology and the prior art allow our technology to be patentable over the prior art. Since patent applications in the United States and most other countries are confidential for a period of time after filing, we cannot be certain that we 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 patents or patent applications.

Among some of the other changes introduced by the Leahy-Smith Act are changes that limit where a patentee may file a patent infringement suit and new procedures providing opportunities for third parties to challenge any issued patent in the USPTO. Included in these new procedures is a process known as inter partes review, or IPR, which has been generally used by many third parties to invalidate patents. The IPR process is not limited to patents filed after the Leahy-Smith Act was enacted and would therefore be available to a third party seeking to invalidate any of our U.S. patents, even those issued or filed before March 16, 2013. Because of a lower evidentiary standard in USPTO proceedings compared to the evidentiary standard in U.S. federal court 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 invalid 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 invalidate our patent claims that would not have been invalidated if first challenged by the third party as a defendant in a district court action.

We could be required to incur significant expenses to obtain our intellectual property rights, and we cannot ensure that we will obtain meaningful patent protection for our product candidates.

The patent prosecution process is expensive and time-consuming, and we may not be able to file and prosecute all necessary or desirable patent applications at a reasonable cost or in a timely manner. In addition, it is also possible that we will fail to identify patentable aspects of further inventions made in the course of our development and commercialization activities before they are publicly disclosed, making it too late to obtain patent protection on them. Further, given the amount of time required for the development, testing and regulatory review of new product candidates, patents protecting such candidates might expire before or shortly after such candidates are commercialized. We expect to seek extensions of patent terms where these are available in any countries where we are prosecuting patents. This includes in the United States under the Drug Price Competition and Patent Term Restoration Act of 1984, which permits a patent term extension of up to five years beyond the expiration of a patentthat covers an approved product where the permission for the commercial marketing or use of the product is the first permitted commercial marketing or use, and as long as the remaining term of the patent does not exceed 14 years. However, the applicable authorities, including the FDA in the United States, and any equivalent regulatory authority in other countries, may not agree with our assessment of whether such extensions are available, and may refuse to grant extensions to our patents, or may grant more limited extensions than we request. If this occurs, our competitors may be able to take advantage of our investment in development and clinical trials by referencing our clinical and preclinical data and launch their product earlier than might otherwise be the case. Changes in either the patent laws or interpretation of the patent laws in the United States and other countries may diminish the value of our patents or narrow the scope of our patent protection. The laws of foreign countries may not protect our rights to the same extent as the laws of the United States, and these foreign laws may also be subject to change. Publications of discoveries in the scientific literature often lag behind 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 be certain that we or our licensors were the first to make the inventions claimed in our owned or licensed patents or pending patent applications, or that we or our licensors were the first to file for patent protection of such inventions.

## Issued patents covering our ETB technologies, product candidates and uses could be found invalid or unenforceable if challenged in court.

Even if our or our current or future collaboration partners' patents do successfully issue and even if such patents cover our product candidates and methods of use, third parties may initiate interference, re-examination, post-grant review, IPR or derivation actions in the USPTO; may initiate third party oppositions in the European Patent Office, or EPO; or may initiate similar actions challenging the validity, enforceability or scope of such patents in other patent administrative proceedings worldwide, which may result in patent claims being narrowed or invalidated. Such proceedings could result in revocation or amendment of our patents in such a way that they no longer cover competitive technologies, product candidates or methods of use. Further, if we initiate legal proceedings against a third party to enforce a patent covering our technologies, product candidates or uses, the defendant could counterclaim that our relevant patent is invalid or unenforceable. In patent litigation in the United States, certain European and other countries worldwide, it is commonplace for defendants to make counterclaims alleging invalidity and unenforceability in the same proceeding, or to commence parallel defensive proceedings such as patent nullity actions to challenge validity and enforceability of asserted patent claims. Further, in the United States, a third party, including a licensee of one of our or our current or future collaboration partners' patents, may initiate legal proceedings against us in which the third party challenges the validity, enforceability, or scope of our patent(s).

In administrative and court actions, grounds for a patent validity challenge may include alleged failures to meet any of several statutory requirements, including lack of novelty, nonobviousness (or inventive step) and, in some cases clarity, adequate written description or non-enablement of, the claimed invention. Grounds for unenforceability assertions include allegations that someone connected with prosecution of the patent withheld relevant information from the Examiner during prosecution in the USPTO or made a misleading statement during prosecution in the USPTO, the EPO or elsewhere. Third parties also may raise similar claims before administrative bodies in the USPTO or the EPO, even outside the context of litigation. The outcome following legal assertions of invalidity and unenforceability are unpredictable. With respect to patent claim validity, for example, we cannot be certain that there is no invalidating prior art, of which we or the patent examiner was unaware during prosecution. Further, we cannot be certain that all of the potentially relevant art relating to our patents and patent applications has been brought to the attention of every patent office. If a defendant or other patent challenger were to prevail on a legal assertion of invalidity or unenforceability, we could lose at least in part, and perhaps all, of the patent protection on our ETB technology, product candidates and associated uses.

We may become involved in lawsuits to protect or enforce our patents or other intellectual property rights, which could be expensive, time consuming and unsuccessful and have a material adverse effect on the success of our business.

Competitors may infringe our patents or the patents of any of our future licensors. If we or one of our licensing partners were to initiate legal proceedings against a third party to enforce a patent covering one of our product candidates, the defendant could counterclaim that the patent covering our product candidate is invalid and/or unenforceable. Grounds for a validity challenge could be an alleged failure to meet any of several statutory requirements, including lack of novelty, nonobviousness, adequate written description, clarity or non-enablement. Grounds for an unenforceability assertion could be an allegation that someone connected with

prosecution of the patent withheld relevant information from the USPTO, or made a misleading statement, during prosecution. The outcome following legal assertions of invalidity and unenforceability is unpredictable.

There is also a risk that, even if the validity of such patents is upheld, the court will construe the patent's claims narrowly or decide that we do not have the right to stop the other party from using the claimed invention at issue on the grounds that our or our current or future collaboration partners' patent claims do not cover the claimed invention. Third parties may in the future make claims challenging the inventorship or ownership of our intellectual property. An adverse outcome in a litigation or proceeding involving one or more of our patents could limit our ability to assert those patents against those parties or other competitors and may curtail or preclude our ability to exclude third parties from making and selling similar or competitive products. Similarly, if we assert trademark infringement claims, a court may determine that the marks we have asserted are invalid or unenforceable, or that the party against whom we have asserted trademark infringement has superior rights to the marks in question. In this case, we could ultimately be forced to cease use of such trademarks.

Even if we were to establish infringement of our patent rights by a third party, the court may decide not to grant an injunction against further infringing activity and instead award only monetary damages, which may or may not be an adequate remedy. Furthermore, because of the substantial amount of discovery required in connection with intellectual property litigation, there is a risk that some of our confidential information could be compromised by disclosure during litigation. There could also be public announcements of the results of hearings, motions or other interim proceedings or developments. If securities analysts or investors perceive these results to be negative, it could adversely affect the market price of our common stock. Moreover, there can be no assurance that we will have sufficient financial or other resources to file and pursue such infringement claims, which typically last for years before they are concluded and can involve substantial expenses. Even if we ultimately prevail in such claims, the monetary cost of such litigation and the diversion of the attention of our management and scientific personnel could outweigh any benefit we receive as a result of the proceedings.

Interference or derivation proceedings provoked by third parties or brought by us or declared by the USPTO may be necessary to determine the priority or inventorship of inventions with respect to our patents or patent applications or those of any of our future licensors. An unfavorable outcome could require us to cease using the related technology or to attempt to license rights to it from the prevailing party. Our business could be harmed if the prevailing party does not offer us a license on commercially reasonable terms. Our defense of litigation, interference proceedings, or derivation proceedings may fail and, even if successful, may result in substantial costs and distract our management and other employees. In addition, the uncertainties associated with litigation and administrative proceedings could have a material adverse effect on our ability to raise the funds necessary to continue our clinical trials, continue our research programs, license necessary technology from third parties or enter into development partnerships that would help us bring our product candidates to market.

If we are unable to protect the confidentiality of our trade secrets and know-how for our product candidates or any future product candidates, we may not be able to compete effectively in our proposed markets.

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. 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 third parties. 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. While we have confidence in these individuals, organizations and systems, agreements or 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.

Although our current employment contracts provide for and we expect all of our employees and consultants to assign their inventions to us, and all of our employees, consultants, advisors, and any third parties who have access to our proprietary know-how, information or technology are expected to enter into confidentiality agreements, we cannot provide any assurances that all such agreements have been duly executed or that our trade secrets and other confidential proprietary information will not be disclosed or that competitors will not otherwise gain access to our trade secrets or independently develop substantially equivalent information and techniques. Misappropriation or unauthorized disclosure of our trade secrets could impair our competitive position and may have a material adverse effect on our business, financial condition or results of operations. Additionally, if the steps taken to maintain our trade secrets are deemed inadequate, we may have insufficient recourse against third parties for misappropriating trade secrets.

Third-party claims of intellectual property infringement could result in costly litigation or other proceedings and may prevent or deay our development and commercialization efforts.

Our commercial success depends in part on our ability to develop, manufacture, market and sell our product candidates and use our proprietary technology without infringing the patent rights of third parties. We are currently not aware of U.S. or foreign patents or pending patent applications owned by third parties that cover our ETB product candidates or therapeutic uses of those ETB product candidates. In the future, we may identify such third-party U.S. and non-U.S. issued patents and pending applications. If we identify any such patents or pending applications, we may in the future pursue available proceedings in the U.S. and foreign patent offices to challenge the validity of these patents and patent applications. In addition, or alternatively, we may consider whether to seek to negotiate a license of rights to technology covered by one or more of such patents and patent applications. If any patents or patent applications cover our product candidates or technologies or a requisite manufacturing process, we may not be free to manufacture or market our product candidates, including MT-3724, as planned, absent such a license, which may not be available to us on commercially reasonable terms, or at all.

It is also possible that we have failed to identify relevant third-party patents or applications. For example, applications filed before November 29, 2000 and applications filed after that date that will not be filed outside the United States remain confidential until patents issue. Moreover, it is difficult for industry participants, including us, to identify all third-party patent rights that may be relevant to product candidates and 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 be unaware of one or more issued patents that would be infringed by the manufacture, sale or use of a current or future product candidate, or 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 specified limitations, be later amended in a manner that could cover our technologies, our product candidates or the use of our product candidates.

There have been many lawsuits and other proceedings involving patent and other intellectual property rights in the biotechnology and pharmaceutical industries, including patent infringement lawsuits, interferences, oppositions and reexamination proceedings before the USPTO and corresponding foreign patent offices. Third parties own numerous U.S. and foreign issued patents and pending patent applications in the fields in which we are developing product candidates. As the biotechnology and pharmaceutical industries expand and more patents are issued, the risk increases that our product candidates may be subject to claims of infringement of the patent rights of third parties.

Parties making patent infringement claims against us may obtain injunctive or other equitable relief, which could effectively block our ability to further develop and commercialize one or more of our product candidates. Defense of these claims, regardless of their merit, may involve substantial litigation expense and may require a substantial diversion of employee resources from our business. In the event of a successful claim of patent infringement against us, we may have to pay substantial damages, including treble damages and attorneys' fees for willful infringement, pay royalties, redesign our infringing products or obtain one or more licenses from third parties, which may be impossible or require substantial time and monetary expenditure.

We may be unsuccessful in obtaining or maintaining third-party intellectual property rights necessary to develop our ETB technologies or to commercialize our product candidates and associated methods of use through acquisitions and in-licenses.

Presently, we have intellectual property rights to our ETB technologies under patent applications that we own and to certain CD38 targeting antibody domains through our License Agreement (as defined below). Because our programs may involve a range of ETB targets and antibody domains, which in the future may include targets and antibody domains that require the use of proprietary rights held by third parties, the growth of our business may likely depend in part on our ability to acquire, in-license or use these proprietary rights. In addition, our product candidates may require specific formulations or manufacturing technologies to work effectively and be manufactured efficiently, and these rights may be held by others. We may be unable to acquire or in-license any compositions, methods of use, processes or other third-party intellectual property rights from third parties that we identify. The licensing and acquisition of third-party intellectual property rights is a competitive area, and a number of more established companies are also pursuing strategies to license or acquire third-party intellectual property rights that we may consider attractive. These established companies may have a competitive advantage over us due to their size, cash resources and greater clinical development and commercialization capabilities.

For example, we have previously and may continue to collaborate with federal, state or international academic institutions to accelerate our preclinical research or development under written agreements with these institutions. Typically, these institutions grant the rights to the collaborator and retain a non-commercial license to all rights as well as march-in rights in the situation that the collaborator fails to exercise or commercialize certain covered technologies. Regardless of such initial rights, we may be unable to exercise or commercialize certain funded technologies thereby triggering march-in rights of the funding institution. If we are unable

to do so, the institution may offer the intellectual property rights to other parties, potentially blocking our ability to pursue our program.

In addition, companies that perceive us to be a competitor may be unwilling to assign or license rights to it. 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. If we are unable to successfully obtain rights to third-party intellectual property rights, our business, financial condition and prospects for growth could suffer.

If we are unable to successfully obtain and maintain rights to required third-party intellectual property, we may have to abandon development of that product candidate or pay additional amounts to the third-party, and our business and financial condition could suffer.

## The patent protection and patent prosecution for some of our product candidates may in the future be dependent on third parties.

While we normally have or seek and gain the right to fully prosecute the patent applications relating to our product candidates, there may be times when certain patents or patent applications relating to our product candidates, their uses or their manufacture may be controlled by our future licensors. If any of our future licensors fail to appropriately and broadly prosecute patent applications and maintain patent protection of claims covering any of our product candidates, their uses or their manufacture, our ability to develop and commercialize those product candidates may be adversely affected and we may not be able to prevent competitors from making, using, importing, and selling competing products. In addition, even where we now have the right to control patent prosecution of patent applications or the maintenance of patents we have licensed from third parties in the future, we may still be adversely affected or prejudiced by actions or inactions of our licensors in effect from actions prior to us assuming control over patent prosecution.

If we fail to comply with obligations in the agreements under which we license intellectual property and other rights from third parties or otherwise experience disruptions to our business relationships with our licensors, we could lose license rights that are important to our business.

We are and will continue to be a party to a number of intellectual property license collaboration and supply agreements that may be important to our business and expect to enter into additional license agreements in the future. Our existing agreements impose, and we expect that future agreements will impose, various diligence, milestone payment, royalty, purchasing and other obligations on us. If we fail to comply with our obligations under these agreements, or we are subject to a bankruptcy, our agreements may be subject to termination by the licensor or other contract partner, in which event we would not be able to develop, manufacture or market products covered by the license or subject to supply commitments.

We may be subject to claims that our employees, consultants or independent contractors have wrongfully used or disclosed confidential information of third parties or that our employees have wrongfully used or disclosed alleged trade secrets of their former employers.

We employ individuals who were previously employed at universities or other biotechnology or pharmaceutical companies, including potential competitors. Although we have written agreements and make every effort to ensure that our employees, consultants and independent contractors do not use the proprietary information or intellectual property rights of others in their work for us, we may in the future be subject to claims that our employees, consultants or independent contractors have wrongfully used or disclosed confidential information of third parties. 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 personnel, which could adversely impact our business. 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.

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

Periodic maintenance fees on any issued patent are due to be paid to the USPTO, and foreign patent agencies in several stages over the lifetime of the patent. The USPTO and various foreign governmental patent agencies require compliance with a number of procedural, documentary, fee payment and other requirements during the patent application process. While an inadvertent lapse can in many cases be cured by payment of a late fee or by other means in accordance with the applicable rules, there are situations in which noncompliance can result in abandonment or lapse of the patent or patent application, resulting in partial or complete loss of patent rights in the relevant jurisdiction. Non-compliance events that could result in abandonment or lapse of a patent or patent application include, but are not limited to, failure to respond to official actions within prescribed time limits, non-payment of

fees and failure to properly legalize and submit formal documents. If we or our licensors fail to maintain the patents and patent applications covering our product candidates, our competitors might be able to enter the market, which would have a material adverse effect on our business.

Our failure to comply with data protection laws and regulations could lead to government enforcement actions, private litigation and/or adverse publicity and could negatively affect our operating results and business.

We are subject to data protection laws and regulations that address privacy and data security. The legislative and regulatory landscape for data protection continues to evolve, and in recent years there has been an increasing focus on privacy and data security issues. In the United States, numerous federal and state laws and regulations, including state data breach notification laws, state health information privacy laws and federal and state consumer protection laws govern the collection, use, disclosure and protection of health-related and other personal information.

Failure to comply with data protection laws and regulations could result in government enforcement actions, which could include civil or criminal penalties, private litigation and/or adverse publicity and could negatively affect our operating results and business. In addition, in May 2016, the EU Parliament adopted the comprehensive General Data Privacy Regulation, or the GDPR, to, among other things, impose more stringent data protection requirements for processors and controllers of personal data and provide for greater penalties and fines for noncompliance, including fines in amounts up to €20 million or 4% of total worldwide annual turnover, whichever is higher. The GDPR became fully effective in May 2018. In addition, in 2018, California adopted a new privacy law, scheduled to go into effect on January 1, 2020, that borrows heavily from the GDPR. Complying with the enhanced obligations imposed by the GDPR and other applicable international and U.S. privacy laws and regulations may result in significant costs to our business and require us to amend certain of our business practices. Further, enforcement actions and investigations by regulatory authorities related to data security incidents and privacy violations continue to increase. The future enactment of more restrictive laws, rules or regulations and/or future enforcement actions or investigations could have a materially adverse impact on us through increased costs or restrictions on our businesses, and noncompliance could result in regulatory penalties and significant legal liability.

#### Risks Related to Our Reliance on Third Parties

We rely on third parties to conduct our clinical trials, manufacture our product candidates and perform other services. If these third parties do not successfully carry out their contractual duties, meet expected deadlines or otherwise conduct the trials as required or perform and comply with regulatory requirements, we may not be able to successfully complete clinical development, obtain regulatory approval or commercialize our product candidates when expected or at all, and our business could be substantially harmed.

We have relied upon and plan to continue to rely upon third-party CROs to conduct, monitor and manage our ongoing clinical programs. We rely on these parties for execution of clinical trials and we manage and control only some aspects of their activities. We remain responsible for ensuring that each of our trials is conducted in accordance with the applicable protocol, legal, regulatory and scientific standards, and our reliance on the CROs does not relieve us of our regulatory responsibilities. We and our CROs and other vendors are required to comply with all applicable laws, regulations and guidelines, including those required by the FDA and comparable foreign regulatory authorities for all of our product candidates in clinical development. If we, or any of our CROs or vendors, fail to comply with applicable laws, regulations and guidelines, the results generated in our clinical trials may be deemed unreliable, and the FDA or comparable foreign regulatory authorities may require us to perform additional clinical trials before approving our marketing applications. We cannot be assured that our CROs and other vendors will meet these requirements, or that upon inspection by any regulatory authority, such regulatory authority will determine that efforts, including any of our clinical trials, comply with applicable requirements. Our failure to comply with these laws, regulations and guidelines may require us to repeat clinical trials, which would be costly and delay the regulatory approval process.

If any of our relationships with these third-party CROs terminates, we may not be able to enter into arrangements with alternative CROs in a timely manner or do so on commercially reasonable terms. In addition, our CROs may not prioritize our clinical trials relative to those of other customers, and any turnover in personnel or delays in the allocation of CRO employees by the CRO may negatively affect our clinical trials. If CROs do not successfully carry out their contractual duties or obligations or meet expected deadlines, our clinical trials may be delayed or terminated, and we may not be able to meet our current plans with respect to our product candidates. CROs also may involve higher costs than anticipated, which could negatively affect our financial condition and operations.

We completed the construction of our cGMP manufacturing facility during the second quarter of 2018 and we have developed the capability to manufacture product candidates for use in the conduct of our clinical trials. We may not be able to manufacture product candidates or there may be substantial technical or logistical challenges to supporting manufacturing demand for product

candidates. We may also fail to comply with cGMP requirements and standards which would not enable us to utilize the manufacturing facility to make clinical trial supply. We plan to rely in part on third-party manufacturers, and their responsibilities will include purchasing from third-party suppliers the materials necessary to produce our product candidates for our clinical trials and regulatory approval. We expect there to be a limited number of suppliers for some of the raw materials that we expect to use to manufacture our product candidates, and we may not be able to identify alternative suppliers to prevent a possible disruption of the manufacture of our product candidates for our clinical trials, and, if approved, ultimately for commercial sale.

Although we generally do not expect to begin a clinical trial unless we believe we have a sufficient supply of a product candidate to complete the trial, any significant delay or discontinuity in the supply of a product candidate, or the raw materials or other material components in the manufacture of the product candidate, could delay completion of our clinical trials and potential timing for regulatory approval of our product candidates, which would harm our business and results of operations. We do not yet have sufficient information to reliably estimate the cost of the commercial manufacturing of our product candidates and our current costs to manufacture our drug products may not be commercially feasible, and the actual cost to manufacture our product candidates could materially and adversely affect the commercial viability of our product candidates. As a result, we may never be able to develop a commercially viable product.

In addition, our reliance on third-party manufacturers exposes us to the following additional risks:

- we may be unable to identify manufacturers on acceptable terms or at all, because the number of qualified potential manufacturers is limited. Following BLA
  approval, a change in the manufacturing site could require additional approval from the FDA. This approval would require new testing and compliance
  inspections;
- our third-party manufacturers might be unable to timely formulate and manufacture our product or produce the quantity and quality required to meet our clinical and commercial needs, if any;
- our future third-party manufacturers may not perform as agreed or may not remain in the contract manufacturing business for the time required to supply our clinical trials or to successfully produce, store and distribute our products;
- drug manufacturers are subject to ongoing periodic unannounced inspection by the FDA and corresponding state agencies to ensure strict compliance with cGMPs and other government regulations and corresponding foreign standards, and we do not have control over third-party manufacturers' compliance with these regulations and standards:
- if any third-party manufacturer makes improvements in the manufacturing process for our products, we may not own, or may have to share, the intellectual property rights to any improvements made by our third-party manufacturers in the manufacturing process for our product candidates; and
- our third-party manufacturers could breach or terminate their agreement with us.

Each of these risks could delay our clinical trials, the approval, if any, of our product candidates or equivalent regulatory agencies outside the U.S., or the commercialization of our product candidates or result in higher costs or deprive us of potential product revenue. In addition, we rely on third parties to perform release testing on our product candidates prior to delivery to patients. If these tests are not appropriately conducted and test data are not reliable, patients could be put at risk of serious harm, which could result in product liability suits.

## We depend on Takeda for the conduct and funding of the development and commercialization of CD38 SLT-A Fusion Proteins.

In September 2018, we expanded our collaboration with Takeda, focused on the development collaboration of the parties regarding CD38 SLT-A fusion proteins, including MT-4019, by entering into the License Agreement. The primary objective of the strategic alliance is to advance novel therapies for indications associated with oncology, particularly multiple myeloma patients.

Under the License Agreement, we granted Takeda an exclusive license to co-develop one or more licensed products, meaning any product that incorporates or is comprised of one or more of the CD38 SLT-A fusion proteins, up to and including Phase Ia clinical and thereafter we would have an option to continue to co-develop the licensed products.

Pursuant to the terms of the License Agreement, Takeda has the sole discretion to assume or to designate a third party to assume our manufacturing activities under this agreement. Takeda may conduct these activities more slowly or in a different manner than we would. Takeda is also responsible for filing future applications with the FDA or other regulatory authorities for approval of the CD38 SLT-A fusion proteins. We cannot control whether Takeda will devote sufficient attention and resources to the development of the SLT-A fusion proteins or will proceed in an expeditious manner. Even if the FDA or other regulatory agencies approve any of the SLT-A fusion proteins, Takeda may elect not to proceed with the commercialization of the resulting drug in one or more countries.

Under the terms of the License Agreement, we will receive payments and royalties upon reaching certain defined milestones. We may not reach any of the milestones that trigger a payment or royalties under the License Agreement and we are subject to reduced payments and royalty rates if we elect not to exercise our co-development option. We are also subject to royalty reductions if there exists a biosimilar product or generic product being sold by a third party. If we exercise our option to co-develop the licensed products, we will become responsible for sharing co-development costs with Takeda. We cannot predict these costs and it is possible that if we cannot afford these costs in the future, we may have to terminate the License Agreement and could be subject to lower milestone and royalty payments, which could harm our business.

Takeda may elect to terminate the License Agreement for convenience upon 90 days prior written notice. Takeda also maintains the right to terminate the License Agreement in connection with our material breach and our insolvency. Takeda reserves certain rights, such as undertaking any not yet completed early stage program activities to be conducted by us, solely and exclusively, upon any change in control of us. If Takeda terminates the License Agreement, it will result in a delay in or could prevent us from further developing or commercializing the CD38 SLT-A fusion proteins, and will delay and could prevent us from obtaining revenues for this product candidate.

Disputes may arise between us and Takeda, which may delay or cause the termination of any CD38 SLT-A fusion protein clinical trials, result in significant litigation or cause Takeda to act in a manner that is not in our best interest. If development of the CD38 SLT-A fusion proteins does not progress for these or any other reasons, we would not receive further milestone payments or royalties on product sales from Takeda with respect to the CD38 SLT-A fusion proteins and may owe Takeda certain development milestones and royalties as well as amounts owed by Takeda pursuant to any of its third-party license agreements.

If Takeda terminates the License Agreement prior to regulatory approval of any drug candidates under this License Agreement, we may have to seek a new partner for development or commercialization or undertake and fund the development of the CD38 SLT-A fusion proteins or commercialization of the resulting drug ourselves. If we seek a new partner but are unable to do so on acceptable terms, or at all, or do not have sufficient funds to conduct the development or commercialization of the CD38 SLT-A fusion proteins ourselves, we may have to curtail or abandon that development or commercialization, which could harm our business.

## We may be unable to realize the potential benefits of any collaboration.

In addition to the License Agreement, we have multi-target research and development collaborations ongoing with Takeda and expect to seek to collaborate with other partners in the future. Even if we are successful in entering into one or more additional collaborations with respect to the development and/or commercialization of one or more product candidates, there is no guarantee that any of these collaborations will be successful. Collaborations may pose a number of risks, including the following:

- collaborators often have significant discretion in determining the efforts and resources that they will apply to the collaboration, and may not commit sufficient resources to the development, marketing or commercialization of the product or products that are subject to the collaboration;
- collaborators may not perform their obligations as expected;
- any such collaboration may significantly limit our share of potential future profits from the associated program, and may require us to relinquish potentially valuable rights to our current product candidates, potential products or proprietary technologies or grant licenses on terms that are not favorable to us;
- collaborators may cease to devote resources to the development or commercialization of our product candidates if the collaborators view our product candidates as competitive with their own products or product candidates;
- disagreements with collaborators, including disagreements over proprietary rights, contract interpretation or the course of development, might cause delays or termination of the development or commercialization of product candidates, and might result in legal proceedings, which would be time consuming, distracting and expensive;
- collaborators may be impacted by changes in their strategic focus or available funding, or business combinations involving them, which could cause them to divert resources away from the collaboration;
- collaborators may infringe the intellectual property rights of third parties, which may expose us to litigation and potential liability;
- the collaborations may not result in us achieving revenues sufficient to justify such transactions; and
- collaborations may be terminated and, if terminated, may result in a need for us to raise additional capital to pursue further development or commercialization of the applicable product candidate.

As a result, a collaboration may not result in the successful development or commercialization of our product candidates.

We enter into various contracts in the normal course of our business in which we indemnify the other party to the contract In the event we have to perform under these indemnification provisions, it could have a material adverse effect on our business, financial condition and results of operations.

In the normal course of business, we have and expect to continue periodically to enter into academic, commercial, service, collaboration, licensing, consulting and other agreements that contain indemnification provisions. With respect to our academic and other research agreements, we typically indemnify the institution and related parties from losses arising from claims relating to our product candidates, processes or services made, used, or performed pursuant to the agreements, and from claims arising from our or our sublicensees' exercise of rights under the agreement. With respect to our collaboration agreements, we indemnify our collaborators from any third-party product liability claims that could result from the production or use of the product candidate, as well as for alleged infringements of any patent or other intellectual property right owned by a third party. With respect to consultants, we often indemnify them from claims arising from the good faith performance of their services.

If our obligations under an indemnification provision exceed applicable insurance coverage or if we were denied insurance coverage, our business, financial condition and results of operations could be adversely affected. Similarly, if we are relying on a collaborator to indemnify us and the collaborator is denied insurance coverage or the indemnification obligation exceeds the applicable insurance coverage, and if the collaborator does not have other assets available to indemnify us, our business, financial condition and results of operations could be adversely affected.

## Risks Related to Commercialization of Our Product Candidates

We currently have limited marketing and sales experience. If we are unable to establish sales and marketing capabilities or enter into agreements with third parties to market and sell our product candidates, we may be unable to generate any revenue.

Although some of our employees may have marketed, launched and sold other pharmaceutical products in the past while employed at other companies, we have no experience selling and marketing our product candidates, and we currently have no marketing or sales organization. To successfully commercialize any products that may result from our development programs, we will need to find one or more collaborators to commercialize our products or invest in and develop these capabilities, either on our own or with others, which would be expensive, difficult and time consuming. Any failure or delay in the timely development of our internal commercialization capabilities could adversely impact the potential for success of our products.

If commercialization collaborators do not commit sufficient resources to commercialize our future products and we are unable to develop the necessary marketing and sales capabilities on our own, we will be unable to generate sufficient product revenue to sustain or grow our business. We may be competing with companies that currently have extensive and well-funded marketing and sales operations, particularly in the markets our product candidates are intended to address. Without appropriate capabilities, whether directly or through third-party collaborators, we may be unable to compete successfully against these more established companies.

We may attempt to form additional collaborations in the future with respect to our product candidates, but we may not be able to do so, which may cause us to alter our development and commercialization plans.

We may attempt to form strategic collaborations, create joint ventures or enter into licensing arrangements with third parties with respect to our programs in addition to those that we currently have that we believe will complement or augment our existing business. We may face significant competition in seeking appropriate strategic collaborators, and the negotiation process to secure appropriate terms is time consuming and complex. We may not be successful in our efforts to establish such a strategic collaboration for any product candidates and programs on terms that are acceptable to it, or at all. This may be because our product candidates and programs may be deemed to be at too early of a stage of development for collaborative effort, our research and development pipeline may be viewed as insufficient, the competitive or intellectual property landscape may be viewed as too intense or risky, and/or third parties may not view our product candidates and programs as having sufficient potential for commercialization, including the likelihood of an adequate safety and efficacy profile.

Any delays in identifying suitable collaborators and entering into agreements to develop and/or commercialize our product candidates could delay the development or commercialization of our product candidates, which may reduce their competitiveness even if they reach the market. Absent a strategic collaborator, we would need to undertake development and/or commercialization activities at our own expense. If we elect to fund and undertake development and/or commercialization activities on our own, we may need to obtain additional expertise and additional capital, which may not be available to us on acceptable terms or at all. If we are unable to do so, we may not be able to develop our product candidates or bring them to market and our business may be materially and adversely affected.

If the market opportunities for our product candidates are smaller than we believe they are, we may not meet our revenue expectations and, assuming approval of a product candidate, our business may suffer. Because the patient populations in the

## market for our product candidates may be small, we must be alle to successfully identify patients and acquire a significant market share to achieve profitability and growth.

Our estimates for the addressable patient population and our estimates for the prices we can charge for our product candidates may differ significantly from the actual market addressable by our product candidates. For instance, our Phase II combination study of MT-3724 with GEMOX is focused on non-Hodgkin's lymphoma. The estimated incidence of non-Hodgkin's B-cell lymphoma is 74,680 new cases and approximately 19,910 deaths were attributable to the disease in the United States in 2018, only a subset of which may benefit from treatment with MT-3724. 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 our product candidates, are based on our beliefs and estimates. These estimates have been derived from a variety of sources, including the scientific literature, patient foundations or market research, and may prove to be incorrect. Further, new studies may change the estimated incidence or prevalence of these diseases. The number of patients may turn out to be lower than expected. Additionally, while we believe that the data in our Phase II clinical trials for MT-3724 will be supportive of application to other indications, there can be no assurance that our clinical trials will successfully address any additional indications. Likewise, 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 business, financial condition, results of operations and prospects.

#### We face substantial competition and our competitors may discover, develop or commercialize products faster or more successfully than us.

The development and commercialization of new drug products is highly competitive. We face competition from major pharmaceutical companies, specialty pharmaceutical companies, biotechnology companies, universities and other research institutions worldwide with respect to MT-3724 and the other product candidates that we may seek to develop or commercialize in the future. We are aware that companies including the following have therapeutics marketed or in development that could compete directly or indirectly with ETBs: Genentech, Bayer, Takeda, AbbVie, Celgene, Seattle Genetics, Immunogen, Morphosys, Genmab, Bristol Myers Squibb, Novartis, Regeneron, Janssen, Xencor, Amgen, Macrogenics, Astra Zeneca, Lilly, Merck KGaA, Pfizer, Merus, Sanofi, Mentrik Biotech, Merrimack Pharmaceuticals, Spectrum Pharmaceuticals, Unum Therapeutics, Daiichi Sankyo, Karyopharm, Mersana and F-Star. Our competitors may succeed in developing, acquiring or licensing technologies and drug products that are more effective or less costly than MT-3724 or any other product candidates that we are currently developing or that we may develop, which could render our product candidates obsolete and noncompetitive.

Many of our competitors have materially greater name recognition and financial, manufacturing, marketing, research and drug development resources than we do. Additional mergers and acquisitions in the biotechnology and pharmaceutical industries may result in even more resources being concentrated in our competitors. Large pharmaceutical companies in particular have extensive expertise in preclinical and clinical testing and in obtaining regulatory approvals for drugs, including biologics. In addition, academic institutions, government agencies, and other public and private organizations conducting research may seek patent protection with respect to potentially competitive products or technologies. These organizations may also establish exclusive collaborative or licensing relationships with our competitors.

If our competitors obtain marketing approval from the FDA or comparable foreign regulatory authorities for their product candidates more rapidly than we do, it could result in our competitors establishing a strong market position before we are able to enter the market. Third-party payors, including governmental and private insurers, also may encourage the use of generic products. For example, if MT-3724 is ultimately approved, it may be priced at a significant premium over other competitive products. This may make it difficult for MT-3724 or any other future products to compete with these products. Failure of MT-3724 or other product candidates to effectively compete against established treatment options or in the future with new products currently in development would harm our business, financial condition, results of operations and prospects.

The commercial success of any of our current or future product candidates will depend upon the degree of market acceptance by physicians, patients, third-party payors, and others in the medical community.

Even with the approvals from the FDA and comparable foreign regulatory authorities, the commercial success of our products will depend in part on the health care providers, patients and third-party payors accepting our product candidates as medically useful, cost-effective and safe. Any product that we bring to the market may not gain market acceptance by physicians, patients and third-party payors. The degree of market acceptance of any of our products will depend on a number of factors, including but not limited to:

- the efficacy of the product as demonstrated in clinical trials and potential advantages over competing treatments;
- · the prevalence and severity of the disease and any side effects;
- the clinical indications for which approval is granted, including any limitations or warnings contained in a product's approved labeling;

- the convenience and ease of administration;
- the cost of treatment;
- the willingness of the patients and physicians to accept these therapies;
- the perceived ratio of risk and benefit of these therapies by physicians and the willingness of physicians to recommend these therapies to patients based on such risks and benefits;
- the marketing, sales and distribution support for the product;
- the publicity concerning our products or competing products and treatments; and
- · the pricing and availability of third-party insurance coverage and reimbursement.

Even if a product displays a favorable efficacy and safety profile upon approval, market acceptance of the product remains uncertain. Efforts to educate the medical community and third-party payors on the benefits of the products may require significant investment and resources and may never be successful. If our products fail to achieve an adequate level of acceptance by physicians, patients, third-party payors and other health care providers, we will not be able to generate sufficient revenue to become or remain profitable.

#### We may not be successful in any efforts to identify, license, discover, develop or commercialize additional product candidates.

Although a substantial amount of our effort will focus on the continued clinical testing, potential approval and commercialization of our existing product candidates, the success of our business is also expected to depend in part upon our ability to identify, license, discover, develop or commercialize additional product candidates. Research programs to identify new product candidates require substantial technical, financial and human resources. We may focus our efforts and resources on potential programs or product candidates that ultimately prove to be unsuccessful. Our research programs or licensing efforts may fail to yield additional product candidates for clinical development and commercialization for a number of reasons, including but not limited to the following:

- · our research or business development methodology or search criteria and process may be unsuccessful in identifying potential product candidates;
- we may not be able or willing to assemble sufficient resources to acquire or discover additional product candidates;
- our product candidates may not succeed in preclinical or clinical testing;
- our potential product candidates may be shown to have harmful side effects or may have other characteristics that may make the products unmarketable or unlikely to receive marketing approval;
- · competitors may develop alternatives that render our product candidates obsolete or less attractive;
- product candidates we develop may be covered by third parties' patents or other exclusive rights;
- the market for a product candidate may change during our program so that such a product may become unreasonable to continue to develop;
- a product candidate may not be capable of being produced in commercial quantities at an acceptable cost, or at all; and
- a product candidate may not be accepted as safe and effective by patients, the medical community or third-party payors.

If any of these events occur, we may be forced to abandon our development efforts for a program or programs, or we may not be able to identify, license, discover, develop or commercialize additional product candidates, which would have a material adverse effect on our business, financial condition or results of operations and could potentially cause us to cease operations.

Failure to obtain or maintain adequate reimbursement or insurance coverage for products, if any, could limit our ability to market those products and decrease our ability to generate revenue.

The pricing, coverage, and reimbursement of our approved products, if any, must be sufficient to support our commercial efforts and other development programs, and the availability and adequacy of coverage and reimbursement by third-party payors, including governmental and private insurers, are essential for most patients to be able to afford expensive treatments. Sales of our approved products, if any, will depend substantially, both domestically and abroad, on the extent to which the costs of our approved products, if any, will be paid for or reimbursed by health maintenance, managed care, pharmacy benefit and similar healthcare management organizations, or government payors and private payors. If coverage and reimbursement are not available, or are available only in

limited amounts, we may have to subsidize or provide products for free or we may not be able to successfully commercializour products.

In addition, there is significant uncertainty related to the insurance coverage and reimbursement for newly approved products. In the United States, the principal decisions about coverage and reimbursement for new drugs are typically made by the CMS, an agency within the United States Department of Health and Human Services, as CMS decides whether and to what extent a new drug will be covered and reimbursed under Medicare. Private payors tend to follow the coverage reimbursement policies established by CMS to a substantial degree. It is difficult to predict what CMS will decide with respect to reimbursement for novel product candidates such as ours and what reimbursement codes our product candidates may receive if approved.

Outside the United States, international operations are generally subject to extensive governmental price controls and other price-restrictive 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 products. In many countries, the prices of products are subject to varying price control mechanisms as part of national health systems. Price controls or other changes in pricing regulation could restrict the amount that we are able to charge for our products, if any. Accordingly, in markets outside the United States, the potential revenue may be insufficient to generate commercially reasonable revenue and profits.

Moreover, increasing efforts by governmental and private payors in the United States and abroad to limit or reduce healthcare costs may result in restrictions on coverage and the level of reimbursement for new products and, as a result, they may not cover or provide adequate payment for our products. We expect to experience pricing pressures in connection with products due to the increasing trend toward managed healthcare, including the increasing influence of health maintenance organizations and additional legislative changes. The downward pressure on healthcare costs in general, and prescription drugs in particular, has and is expected to continue to increase in the future. As a result, profitability of our products, if any, may be more difficult to achieve even if they receive regulatory approval.

#### Risks Related to Ownership of Our Common Stock

## The market price of our common stock is expected to be volatile, and the market price of the common stock may drop.

The market price of our common stock could be subject to significant fluctuations. Market prices for securities of early-stage pharmaceutical, biotechnology and other life sciences companies have historically been particularly volatile. Some of the factors that may cause the market price of our common stock to fluctuate include:

- our ability to obtain regulatory approvals for MT-3724 or other product candidates, and delays or failures to obtain such approvals;
- failure of any of our product candidates, if approved, to achieve commercial success;
- failure to maintain our existing third-party license and supply agreements;
- failure by us or our licensors to prosecute, maintain, or enforce our intellectual property rights;
- changes in laws or regulations applicable to our product candidates;
- any inability to obtain adequate supply of our product candidates or the inability to do so at acceptable prices;
- · adverse regulatory authority decisions;
- introduction of new products, services or technologies by our competitors;
- failure to meet or exceed financial and development projections we may provide to the public;
- failure to meet or exceed the financial and development projections of the investment community;
- the perception of the pharmaceutical industry by the public, legislatures, regulators and the investment community;
- announcements of significant acquisitions, strategic collaborations, joint ventures or capital commitments by us or our competitors;
- disputes or other developments relating to proprietary rights, including patents, litigation matters, and our ability to obtain patent protection for our technologies;
- additions or departures of key personnel;
- significant lawsuits, including patent or stockholder litigation;

- failure by securities or industry analysts to publish research or reports about our business, or issuance of any advers or misleading opinions by such analysts regarding our business and stock;
- changes in the market valuations of similar companies;
- general market or macroeconomic conditions;
- sales of our common stock by us or our stockholders in the future;
- the trading volume of our common stock;
- announcements by commercial partners or competitors of new commercial products, clinical progress or the lack thereof, significant contracts, commercial relationships or capital commitments;
- adverse publicity relating to ETB therapeutics generally, including with respect to other products and potential products in such markets;
- · the introduction of technological innovations or new therapies that compete with our potential products;
- · changes in the structure of health care payment systems; and
- period-to-period fluctuations in our financial results.

Moreover, the stock markets in general have experienced substantial volatility that has often been unrelated to the operating performance of individual companies. These broad market fluctuations may also adversely affect the trading price of our common stock.

Additionally, a decrease in our stock price may cause our common stock to no longer satisfy the continued listing standards of The Nasdaq Capital Market. If we are not able to maintain the requirements for listing on The Nasdaq Capital Market, we could be delisted, which could have a materially adverse effect on our ability to raise additional funds as well as the price and liquidity of our common stock. As of March 31, 2019, we had outstanding a total of approximately 36,756,651 shares of common stock.

# Future sales of a substantial number of shares of our common stock in the public market, or the perception that such sales could occur, could cause our stock price to fall.

If our existing stockholders sell, or indicate an intention to sell, substantial amounts of our common stock in the public market, the trading price of our common stock could decline. The perception in the market that these sales may occur could also cause the trading price of our common stock to decline. As of March 31, 2019, we had outstanding a total of approximately 36,756,651 at shares of common stock. As a result of contractual arrangements entered into in connection with our September public offering, approximately 16.5 million shares of our common stock beneficially owned by our executive officers, directors and certain of our existing shareholders were subject to lock-up agreements until December 19, 2018 that prohibited, subject to certain exceptions, the offering, sale, contracting to sell, pledging or otherwise disposing of, directly or indirectly, any of our common stock or securities convertible into or exchangeable or exercisable for any of our common stock, entering into a transaction that would have the same effect, or entering into any swap, hedge or other arrangement that transfers, in whole or in part, any of the economic consequences of ownership of our common stock, whether any of these transactions are to be settled by delivery of our common stock or other securities, in cash or otherwise, or publicly disclosing the intention to make any offer, sale, pledge or disposition, or to enter into any transaction, swap, hedge or other arrangement, without, in each case, the prior written consent of the representatives of the underwriters of the public offering, who may release any of the securities subject to these lock-up agreements at any time without notice. These shares can now be sold into the market and may cause the market price of our common stock to decline significantly.

# Future sales and issuances of our common stock or rights to purchase common stock, including pursuant to our equity incentive plans or otherwise, could result in dilution of the percentage ownership of our stockholders and could cause our stock price to fall.

Even after giving effect to the funds raised in the past, we expect that significant additional capital will be needed in the future to continue our planned operations. To raise capital we may sell common stock, convertible securities or other equity securities in one or more transactions at prices and in a manner in which we may determine from time to time. If we sell common stock, convertible securities or other equity securities in more than one transaction, investors in a prior transaction may be materially diluted. Additionally, new investors could gain rights, preferences and privileges senior to those of existing holders of our common stock. Further, any future sales of our common stock by us or resales of our common stock by our existing stockholders could cause the market price of our common stock to decline.

Pursuant to our 2018 Equity Incentive Plan, or the 2018 Plan, we are authorized and have available to grant equity awards to our employees, directors and consultants for up to an aggregate of 3.4 million shares of our common stock reserved for issuance pursuant

to the 2018 Plan as of March 31, 2019, which includes potential forfeitures and cancellations of outstanding stock options from the 2009 Equity Incentive Plan, 2014 Equity Incentive Plan and 2004 Equity Incentive Plan. Any future grants of options, warrants or other securities exercisable or convertible into our common stock, or the exercise or conversion of such shares, and any sales of such shares in the market, could have an adverse effect on the market price of our common stock.

## We may incur significant costs from class action litigation due to our expected stock volatility.

Our stock price may fluctuate for many reasons, including as a result of public announcements regarding the progress of our development efforts or the development efforts of future collaborators or competitors, the addition or departure of our key personnel, variations in our quarterly operating results and changes in market valuations of biopharmaceutical and biotechnology companies.

This risk is especially relevant to us because biopharmaceutical and biotechnology companies have experienced significant stock price volatility in recent years. When the market price of a stock has been volatile as our stock price may be, holders of that stock have occasionally brought securities class action litigation against the company that issued the stock. If any of our stockholders were to bring a lawsuit of this type against us, even if the lawsuit is without merit, it could result in substantial costs defending the lawsuit and diversion of the time, attention and resources of our Board of Directors and management, which could significantly harm our profitability and reputation.

Our amended and restated certificate of incorporation, amended and restated bylaws and Delaware law contain provisions that could discourage another company from acquiring us and may prevent attempts by our stockholders to replace or remove our current management.

Provisions of Delaware law, where we are incorporated, our amended and restated certificate of incorporation and our amended and restated bylaws may discourage, delay or prevent a merger or acquisition that our stockholders may consider favorable, including transactions in which you might otherwise receive a premium for your shares. In addition, 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 or remove our board of directors. These provisions include:

- authorizing our board of directors to issue "blank check" preferred stock without any need for approval by stockholders;
- providing for a classified board of directors with staggered three-year terms;
- requiring supermajority stockholder votes to effect certain amendments to our amended and restated certificate of incorporation and amended and restated bylaws;
- eliminating the ability of stockholders to call special meetings of stockholders;
- · prohibiting stockholder action by written consent; and
- establishing advance notice requirements for nominations for election to our board of directors or for proposing matters that can be acted on by stockholders at stockholder meetings.

Claims for indemnification by our directors and officers may reduce our available funds to satisfy successful third-party claims against us and may reduce the amount of money available to us.

Our amended and restated certificate of incorporation and amended and restated bylaws provide that we will indemnify our directors and officers, in each case to the fullest extent permitted by Delaware law.

In addition, as permitted by Section 145 of the Delaware General Corporation Law, or the DGCL, our amended and restated bylaws and our indemnification agreements that we have entered into with our directors and executive officers provide that:

- We will indemnify our directors and executive officers for serving us in those capacities or for serving other related business enterprises at our request, to the fullest extent permitted by Delaware law. Delaware law provides that a corporation may indemnify such person if such person acted in good faith and in a manner such person reasonably believed to be in or not opposed to the best interests of the registrant and, with respect to any criminal proceeding, had no reasonable cause to believe such person's conduct was unlawful.
- · We may, in our discretion, indemnify employees and agents in those circumstances where indemnification is permitted by applicable law.
- We are required to advance expenses, as incurred, to our directors and officers in connection with defending a proceeding, except that such directors or officers shall undertake to repay such advances if it is ultimately determined that such person is not entitled to indemnification.

- The rights conferred in our amended and restated bylaws are not exclusive, and we are authorized to enter into indemnification agreements with our directors, officers, employees and agents and to obtain insurance to indemnify such persons.
- We may not retroactively amend our amended and restated bylaw provisions to reduce our indemnification obligations to directors, officers, employees and agents.

## We have never paid dividends on our common stock, and we do not anticipate paying any cash dividends in the foreseeable future.

We have never declared or paid cash dividends on our common stock. We do not anticipate paying any cash dividends on our common stock in the foreseeable future. We currently intend to retain all available funds and any future earnings to fund the development and growth of our business. As a result, capital appreciation, if any, of our common stock will be our stockholders' sole source of gain for the foreseeable future.

## We incur, and will continue to incur, costs and demand significantly increased costs as a result of operating as a public company, and our management is now required to devote substantial time to new compliance initiatives.

As a public company listed on The Nasdaq Capital Market, and particularly after we cease to be a "smaller reporting company", we are incurring and will continue to incur significant legal, accounting and other expenses that we did not incur as a private company. We are subject to the reporting requirements of the Exchange Act, as well as various requirements imposed by the Sarbanes-Oxley Act, rules subsequently adopted by the SEC and Nasdaq to implement provisions of the Sarbanes-Oxley Act, and the Dodd-Frank Wall Street Reform and Consumer Protection Act. Stockholder activism, the current political environment and the current high level of government intervention and regulatory reform may lead to substantial new regulations and disclosure obligations, which may lead to additional compliance costs and impact the manner in which we operate our business in ways we cannot currently anticipate. The listing requirements of The Nasdaq Capital Market require that we satisfy certain corporate governance requirements relating to director independence, distributing annual and interim reports, stockholder meetings, approvals and voting, soliciting proxies, conflicts of interest and a code of conduct.

We expect the rules and regulations applicable to public companies to substantially increase our legal and financial compliance costs and to make some activities more time-consuming and costly. For example, we expect these rules and regulations to make it more difficult and more expensive for us to obtain director and officer liability insurance and we may be required to incur substantial costs to maintain the same or similar coverage. We also expect that we will need to hire additional accounting, finance and other personnel in connection with our efforts to comply with the requirements of being a public company, and our management and other personnel will need to devote a substantial amount of time towards maintaining compliance with these requirements. We cannot predict or estimate the amount or timing of additional costs we may incur to respond to these requirements. The impact of these requirements could also make it more difficult for us to attract and retain qualified persons to serve on our Board of Directors and committees thereof or as executive officers.

## Our amended and restated bylaws provide that the Court of Chancery of the State of Delaware is the exclusive forum for substantially all disputes between us and our stockholders, which could limit our stockholders' ability to obtain a favorable judicial forum for disputes with us or our directors, officers or other employees.

Our amended and restated bylaws provide that the Court of Chancery of the State of Delaware is the sole and exclusive forum for any derivative action or proceeding brought on our behalf, any action asserting a breach of fiduciary duty owed by any of our directors, officers or other employees to us or our stockholders, any action asserting a claim against us arising pursuant to any provisions of the DGCL, our amended and restated certificate of incorporation or our amended and restated bylaws, or any action asserting a claim against us that is governed by the internal affairs doctrine. The choice of forum provision may limit a stockholder's ability to bring a claim in a judicial forum that it finds favorable for disputes with us or our directors, officers or other employees, which may discourage such lawsuits against us and our directors, officers and other employees. If a court were to find the choice of forum provision contained in our amended and restated bylaws to be inapplicable or unenforceable in an action, we may incur additional costs associated with resolving such action in other jurisdictions.

#### An active trading market for our common stock may not develop.

Prior to the Merger, there had been no public market for Private Molecular common stock. An active trading market for our shares of common stock may not be sustained. If an active market for our common stock is not sustained, it could put downward pressure on the market price of our common stock and thereby affect the ability of stockholders to sell their shares.

Our executive officers, directors and principal stockholders have the ability to control or significantly influence all matters submitted to our stockholders for approval.

As of March 31, 2019, our directors, officers, and stockholders beneficially owning 5% or more of our shares or that may be affiliated with our board members, beneficially owned, in the aggregate, approximately 42% of our outstanding shares of common stock. As a result, if these stockholders were to choose to act together, they would be able to significantly influence almost all matters submitted to our stockholders for approval, as well as our management and affairs. For example, these persons, if they choose to act together, would control or significantly influence the election of directors and approval of any merger, consolidation or sale of all or substantially all of our assets. Within this group, Santé Health Ventures, LLC and its affiliates own approximately 24% of our shares, Longitude Capital Management Company, LLC and its affiliates own approximately 12% of our shares, Millennium Pharmaceuticals, Inc. owns approximately 8% of our shares BVF Partners, L.P. owns approximately 9% of our shares, Perceptive Advisors, LLC and its affiliates own approximately 6% of our shares. This concentration of voting power could delay or prevent an acquisition of us on terms that other stockholders may desire.

If securities or industry analysts do not publish, or cease publishing, research or reports, or publish unfavorable research or reports, about us, our business or our market, or if they change their recommendations regarding our stock adversely, our stock price and trading volume could decline.

The trading market for our common stock will be influenced by the research and reports that equity research analysts publish about us and our business. We do not have any control over these analysts. Equity research analysts may elect not to provide research coverage of our common stock, and such lack of research coverage may adversely affect the market price of our common stock. In the event we do have equity research analyst coverage, we will not have any control over the analysts or the content and opinions included in their reports and there can be no assurance that analysts will provide favorable coverage. The price of our common stock could decline if one or more equity research analysts downgrade our stock or issue other unfavorable commentary or research. If one or more equity research analysts ceases coverage of us or fails to publish reports on us regularly, demand for our common stock could decrease, which in turn could cause our stock price or trading volume to decline.

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

We have broad discretion over the use of our cash reserves, including the proceeds from our previous financings. You may not agree with our decisions, and our use of these funds may not improve our results of operations or enhance the value of our common stock. Our failure to apply these funds effectively could compromise our ability to pursue our growth strategy, result in financial losses that could have a material adverse effect on our business, cause the price of our common stock to decline and delay the development of our product candidates. Pending their use, we may invest our cash reserves in a manner that does not produce income or that loses value.

Having availed ourselves of scaled disclosure available to smaller reporting companies, we cannot be certain if such reduced disclosure will make our common stock less attractive to investors.

Under Section 12b-2 of the Exchange Act, a "smaller reporting company" is a company that is not an investment company, an asset backed issuer, or a majority-owned subsidiary of a parent company. Effective September 10, 2018, the definition of a "smaller reporting company" was amended to include companies with a public float of less than \$250 million as of the last business day of its most recently completed second fiscal quarter or, if such public float is less than \$700 million, had annual revenues of less than \$100 million during the most recently completed fiscal year. Smaller reporting companies are permitted to provide simplified executive compensation disclosure in their filings; they are exempt from the provisions of Section 404(b) of the Sarbanes-Oxley Act requiring that independent registered public accounting firms provide an attestation report on the effectiveness of internal controls over financial reporting; and they have certain other decreased disclosure obligations in their SEC filings, including, among other things, only being required to provide two years of audited financial statements in annual reports. As of March 31, 2019, we qualify as a smaller reporting company. For as long as we continue to be a smaller reporting company, we expect that we will take advantage of the reduced disclosure obligations available to us as a result of those respective classifications. Decreased disclosure in our SEC filings as a result of our having availed ourselves of scaled disclosure may make it harder for investors to analyze our results of operations and financial prospects.

## Risks Related to Our Business Operations

Our future success depends in part on our ability to retain our Chief Executive Officer and Chief Scientific Officer and to attract, retain, and motivate other qualified personnel.

We are highly dependent on Eric E. Poma, Ph.D., our Chief Executive Officer and Chief Scientific Officer, the loss of whose services may adversely impact the achievement of our objectives. Dr. Poma could leave our employment at any time, as he is an "at will" employee. Recruiting and retaining other qualified employees, consultants and advisors for our business, including scientific

and technical personnel, will also be crucial to our success. There is currently a shortage of highly qualified personnel in our industry, which is likely to continue. Additionally, this shortage of highly qualified personnel is particularly acute in the area where we are located. As a result, competition for personnel is intense and the turnover rate can be high. We may not be able to attract and retain personnel on acceptable terms given the competition among numerous pharmaceutical and biotechnology companies for individuals with similar skill sets. In addition, failure to succeed in development and commercialization of our product candidates may make it more challenging to recruit and retain qualified personnel. The inability to recruit and retain qualified personnel, or the loss of the services of Dr. Poma may impede the progress of our research, development and commercialization objectives and would negatively impact our ability to succeed in our product development strategy.

## We will need to expand our organization, and we may experience difficulties in managing this growth, which could disrupt our operations.

As of March 31, 2019, we had 79 full-time employees. As our development and commercialization plans and strategies develop, we expect to need additional managerial, operational, sales, marketing, financial, legal and other resources. Our management may need to divert a disproportionate amount of its attention away from its day-to-day activities and devote a substantial amount of time to managing these growth activities. We may not be able to effectively manage the expansion of our operations, which may result in weaknesses in our infrastructure, operational mistakes, loss of business opportunities, loss of employees and reduced productivity among remaining employees. Our expected growth could require significant capital expenditures and may divert financial resources from other projects, such as the development of additional product candidates. If our management is unable to effectively manage our growth, our expenses may increase more than expected, our ability to generate and/or grow revenue could be reduced and we may not be able to implement our business strategy. Our future financial performance and our ability to commercialize product candidates and compete effectively will depend, in part, on our ability to effectively manage any future growth.

## Failure in our information technology and storage systems, including a cybersecurity breach, could significantly disrupt the operation of our business.

Our ability to execute our business plan and maintain operations depends on the continued and uninterrupted performance of our information technology, or IT, systems. We maintain sensitive company data on our computer networks, including our intellectual property and proprietary business information. Our IT systems are vulnerable to risks and damages from a variety of sources, including telecommunications or network failures, cyber-attacks, computer viruses, breaches, unauthorized access, interruptions due to employee error or malfeasance or other disruptions, or damage from natural disasters, terrorism, war and telecommunication and electrical failures. Moreover, despite network security and back-up measures, some of our and our vendors' servers are potentially vulnerable to physical or electronic break-ins, including cyber-attacks, computer viruses and similar disruptive problems. These events could lead to the unauthorized access, disclosure and use of non-public information including our intellectual property or proprietary business information. The techniques used by criminal elements to attack computer systems are sophisticated, change frequently and may originate from less regulated and remote areas of the world. As a result, we may not be able to address these techniques proactively or implement adequate preventative measures. There can be no assurance that we will promptly detect any such disruption or security breach, if at all. If our computer systems are compromised, we could be subject to fines, damages, reputational harm, litigation and enforcement actions, and we could lose trade secrets, the occurrence of which could harm our business, in addition to possibly requiring substantial expenditures of resources to remedy. For example, the loss of data from completed clinical trials for our product candidates could result in delays in our regulatory approval efforts and significantly increase our costs to recover or reproduce data and a cybersecurity breach could adversely affect our reputation and co

#### ITEM 2. UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDS.

None.

#### ITEM 3. DEFAULTS UPON SENIOR SECURITIES

None.

## ITEM 4. MINE SAFETY DISCLOSURES

Not applicable.

## ITEM 5. OTHER INFORMATION

None.

## ITEM 6. EXHIBITS

## EXHIBIT INDEX

The exhibits listed on the accompanying index to exhibits are filed or incorporated by reference (as stated therein) as part of this Quarterly Report on Form 10-Q.

Exhibit Number	Description
10.1	Sublease, dated as of January 23, 2019, by and between Molecular Templates, Inc. and State Farm Mutual Automobile Insurance Company.
31.1	Certification of Principal Executive Officer required by Rule 13a-14(a) or 15d-14(a) of the Securities Exchange Act of 1934 as amended.
31.2	Certification of Principal Financial Officer required by Rule 13a-14(a) or 15d-14(a) of the Securities Exchange Act of 1934 as amended.
32.1*	Certification required by Rule 13a-14(b) or Rule 15d-14(b) and Section 1350 of Chapter 63 of Title 18 of the United States Code (18 U.S.C. §1350).
101.INS	XBRL Instance Document.
101.SCH	XBRL Taxonomy Extension Schema Document.
101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document.
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document.
101.LAB	XBRL Taxonomy Extension Labels Linkbase Document.
101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document.

<sup>\*</sup> Furnished herewith. This certification is not deemed filed for purposes of Section 18 of the Exchange Act, or otherwise subject to the liability of that section, and is not deemed to be incorporated by reference into any filing under the Securities the Exchange Act.

#### **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.

Date: May 13, 2019

Date: May 13, 2019

Molecular Templates, Inc.

/s/ Eric E. Poma

Eric E. Poma, Ph.D.
Chief Executive Officer and Chief Scientific Officer

(Principal Executive Officer)

/s/ Adam Cutler

Adam Cutler

Chief Financial Officer (Principal Financial and Accounting Officer)

#### SUBLEASE AGREEMENT

THIS SUBLEASE AGREMENT ("Sublease") is made this 23<sup>rd</sup> day of January, 2019, by and between State Farm Mutual Automobile Insurance Company, an Illinois corporation (hereinafter referred to as "Sublandlord"), and Molecular Templates, Inc., a Delaware corporation (hereinafter referred to as "Subtenant").

#### RECITAL S

- A. Sublandlord and Subtenant acknowledge the lease dated August 20, 2013 and any amendments (a copy of which is attached hereto as Exhibit "A") made by and between SFT INS (TX), LLC as Landlord ("Landlord") and State Farm Mutual Automobile Insurance Company as Tenant ("Master Lease"). Subtenant represents it has read and is familiar with the terms of the Master Lease. Sublandlord acknowledges its continuing obligations under the Master Lease and that Subtenant has no obligations under the Master Lease.
- B. Sublandlord wishes to sublease to Subtenant and Subtenant wishes to sublease from Sublandlord the space containing approximately 57,085 rentable square feet ("Premises"), depicted in Exhibit "B" incorporated herein, located in the building (the "Building") commonly known as 8900 Amberglen Blvd., Austin, Texas, 78729 (the Building and the land on which the Building is located, collectively, the "Property"), and together, in common with other tenants, the common areas serving the Property, including the lobby area of the building, lunch room area on the first floor, shared access to common area break rooms located on the third floor, common corridors, exterior walk ways and roadways and parking facilities, pursuant to the terms and conditions below.

Sublandlord and Subtenant agree:

#### **AGREEMENT**

- 1. <u>Sublease Term.</u> The term of this Sublease ("Sublease Term") shall commence on the date (the "Sublease Commencement Date") which is the latest to occur of (1) the execution and delivery of this Sublease by the parties hereto (2) delivery of vacant possession of the Premises to Subtenant in the condition required by the terms of this Sublease together with the furnishings and equipment (collectively "FF&E") set forth on Exhibit "C" hereto, (3) receipt by Subtenant of the Consent (as defined in Section 34 hereof), and (4) receipt by Subtenant of the Recognition Agreement (as defined in Section 34 hereof), and shall expire on August 30, 2028 (the "Expiration Date"). Subtenant may elect to waive the delivery of the Recognition Agreement as a condition to Sublease Commencement Date. If the Recognition Agreement has not been received by the Subtenant within thirty (30) days following execution and delivery of the Sublease, Subtenant shall elect to (1) waive the delivery of the Recognition agreement as a condition to Sublease Commencement Date or (2) terminate the Sublease with no penalty.
- 2. <u>Delivery of Premises</u>. (a) If Sublandlord is unable to deliver possession of the Premises to Subtenant on the Sublease Commencement Date of the term hereof, Sublandlord shall not be subject to any liability for the failure to deliver possession on said date except as hereinafter provided, and such failure shall not affect the validity of this Sublease or the

obligations of Subtenant hereunder or extend the term hereof, but the Rent reserved shall not commence to accrue until possession of the Premises is tendered to Subtenant. If Sublandlord cannot deliver possession of the Premises within ninety (90) days of the execution of this Sublease, unless said delays are caused by the Subtenant or by events described in Section 36, then Subtenant shall have the option to terminate this Sublease with no penalty and all amounts paid or deposited by Subtenant hereunder shall be promptly refunded or returned by Sublandlord.

- (b) The Premises shall be delivered to Subtenant vacant and broom cleaned except that the FF&E shall be in the Premises on the Sublease Commencement Date. Sublandlord shall ensure that the Premises is delivered to Subtenant in compliance with all applicable laws on the Sublease Commencement Date and all building systems, including without limitation, plumbing, heating, electrical, air-conditioning, and equipment shall be in good working order.
- 3. Subtenant Allowance; Test Fit Allowance; Demising Work. (a) As an inducement for Subtenant to enter into this Sublease, Sublandlord shall provide Subtenant with a construction allowance in the amount of \$1,997,975.00. The allowance is intended to be applied to all costs incurred by Subtenant in connection with the build-out of the Premises for Subtenant's intended use (all such work and improvements collectively, "Subtenant's Work") including, but not limited to, space planning, architectural and engineering fees, actual construction material and labor, data and IT system design, equipment and cabling, and a supervision fee for Subtenant's construction manager(s). Subtenant may utilize up to \$171,255.00 of the allowance towards moving expenses and for furnishings, fixtures, equipment and lab equipment to be installed or used in the Premises. The allowance ("Sublandlord's Contribution") shall be payable (as hereinafter provided) against requisitions therefor accompanied by (i) a list specifying in reasonable detail the work performed for which such requisition is being submitted and the portion of the amount of such requisition allocated to each such item of work and (ii) waivers of mechanics liens for all work for which such installment of Sublandlord's Contribution has been requisitioned, from each contractor, sub-contractor, vendor and supplier of labor and material for whom such installment of Sublandlord's Contribution is being requisitioned. Sublandlord shall make the payments associated with each requisition within thirty (30) days of its receipt of the requisition and supporting documentation. Payments on account of Sublandlord's Contribution shall be payable more frequently than monthly. Any remaining portion of the Allowance not disbursed within twelve (12) months following the Sublease Commencement Date shall be forfeited
  - (b) In addition to Sublandlord's Contribution, Sublandlord, at Sublandlord's sole cost and expense, shall reimburse Subtenant for a test fit allowance ("Test-Fit Allowance") equal to \$5,708.50, outside of the Sublandlord's Contribution. The Test-Fit Allowance shall be paid to Subtenant within thirty (30) days of a requisition therefor.
  - (c) At the request of Sublandlord, Subtenant has agreed to construct the walls and associated points of ingress and egress for access and fire safety necessary to demise the Premises from the balance of the 3rd floor of the Building (such work, the "Demising Work"). Sublandlord and Subtenant agree that the estimate attached hereto as Exhibit "D" annexed hereto is a reasonable and fair estimate of the cost of the Demising Work. In consideration of Subtenant's agreement to perform the Demising Work at Sublandlord's

request, Sublandlord shall pay to Subtenant the sum of \$115,532.00 (the "Demising Work Cost") which is sum reflected on Exhibit "D". Sublandlord shall pay the Demising Work Cost to Subtenant within ninety (90) days following the Commencement Date. Subject to Sublandlord's prior written consent, which consent shall not be unreasonably withheld, conditioned or delayed, Subtenant shall have the right to store materials necessary for the Demising Work outside of the Premises, provided that the storage does not unreasonably interfere with any other tenants. Subtenant shall not be obligated to perform the work during non-business hours. Sublandlord shall provide Subtenant with access to the adjoining space for purposes of the performance of the Demising Work during normal business hours.

4. Temporary Space. No later than March 1, 2019, Sublandlord shall provide Subtenant with temporary space ("Temporary Space") on a Wing on the 3rd floor. The exact location of the Temporary Space is outlined on "Exhibit J" annexed hereto. Subtenant shall have the right to use and occupy the Temporary Space from the date the Temporary Space is delivered to Subtenant until thirty (30) days following the substantial completion of Subtenant's Work (such period, the "Temporary Occupancy Period"). During the Temporary Occupancy Period, Subtenant shall have no obligation to pay any rent or other charge with respect to the Temporary Space except that Subtenant shall pay its pro-rata share of Operating Expenses (as hereinafter defined) based on the rentable square footage of the Temporary Space. Subtenant shall have no obligation to make any repairs or performance any maintenance with respect to the Temporary Space and the same shall be provided by Sublandlord as if the Temporary Space was the Premises demised hereunder.

The Temporary Space shall be built out with offices and/or desk areas sufficient for Subtenant's normal business operations. Sublandlord shall provide Subtenant with reasonable access to the Temporary Space to inspect the same. All building systems and equipment servicing the Temporary Space shall be in proper working order on the delivery date. Sublandlord shall provide all Landlord Services to the Temporary Space during the Temporary Occupancy Period, including without limitation, heating, ventilation, air conditioning, electricity and janitorial services.

5. <u>Generator</u>. Subtenant shall have the right to use the area identified on Exhibit "E" attached hereto for the installation and maintenance of a backup generator to be installed by Subtenant, for Subtenant's exclusive use throughout the term of this Sublease. Sublandlord shall permit the use of such space at no additional cost or expense to Subtenant. Sublandlord shall provide Subtenant with access to and through such portions of the Building, including without limitation the basement, walls and roof, for the installation and maintenance of such equipment, wiring and conduits necessary to connect the generator to the Premises and the electrical supply of the Building.

To the extent that the generator is not considered property of the Landlord upon installation pursuant to the terms of the Master Lease, Subtenant, at Subtenant's sole cost and expense, shall be responsible for the removal of the generator on or before the Expiration Date and any reasonable cost associated with the restoration needed to the area the generator was located. Notwithstanding the foregoing, in the event Subtenant

enters into a direct lease with Landlord for occupancy of the Premises or another portion of the Building following the Expiration Date, Subtenant shall have no obligation to remove the generator.

6. <u>Use</u>. Subtenant will use and occupy the Premises during the Sublease Term for general office, laboratory use for research and development and storage purposes and in accordance with Section Article 4 of the Master Lease, and for no other purpose (provided that no laboratory classified as a BSL-3 or BSL-4 shall be permitted) and in all cases in accordance with Law, including any hazardous waste or medical waste rules and regulations promulgated by Sublandlord or any applicable governmental authority (collectively, the "Permitted Use"),

Sublandlord acknowledges that it is not the intent of this Section 6 to prohibit Subtenant from using the Premises for the Permitted Use. Subtenant may operate its business according to prudent industry practices so long as the use or presence of Hazardous Materials is in accordance with applicable Hazardous Materials Law (as defined in Section 16). Subtenant agrees to deliver to Sublandlord prior to the Sublease Commencement Date a list identifying each type of Hazardous Materials (as defined in Section 16) to be brought upon, kept, used, stored, handled, treated, generated on, or released or disposed of from, the Premises and setting forth any and all governmental approvals or permits required in connection with the presence, use, storage, handling, treatment, generation, release or disposal of such Hazardous Materials on or from the Premises ("Hazardous Materials List"). Upon request of Sublandlord, Subtenant shall deliver to Sublandlord an updated Hazardous Materials List within thirty (30) days following Sublandlord's request, provided that Sublandlord shall not make such request more than once per calendar year during the Sublease Term (unless required by applicable legal requirements or in connection with a specific transaction involving the Premises). On request, Subtenant shall deliver to Sublandlord true and correct copies of the permits, approvals, reports and material correspondence, and storage and management plans relating to the use, storage, handling, treatment, generation, release or disposal of Hazardous Materials by Subtenant at the Premises, including plans relating to the installation of any storage tanks containing Hazardous Materials to be installed in or under the Premises (provided, said installation of tanks shall only be permitted after Sublandlord has given its written consent to do so, which consent shall be given in accordance with Section 6). At any time following Subtenant's receipt of a request from Sublandlord, Subtenant shall promptly complete a "hazardous substances questionnaire" (excluding confidential information, unless Sublandlord and Subtenant enter into a commercially reasonable non-disclosure agreement with respect to such confidential information) using the form then-provided by Sublandlord to the extent the same is reasonably satisfactory to Subtenant. Any handling, treatment, transportation, storage, disposal or use of Hazardous Materials by Subtenant in or about the Premises or the Property and Subtenant's use of the Premises shall comply with all applicable Hazardous Materials Law.

Subtenant shall give written notice to Sublandlord as soon as reasonably practicable of (A) any communication received by Subtenant from any governmental authority concerning Hazardous Materials which relates to the Premises or the Property, and (B) any disposal, release or threat of release of Hazardous Materials on, under, from or about the Building or the Property of which Subtenant is aware.

- 7. Subtenant will, at Subtenant's sole cost and expense, comply with all applicable federal, state and local laws, ordinances, rules and regulations, court orders, governmental directives and governmental orders relating to, affecting, or arising out of Subtenant's specific use and specific manner of occupancy of the Premises as opposed to mere office use. Subtenant shall use commercially reasonable efforts to not create any nuisance, commit waste, or unreasonably interference with or unreasonably disturb any other tenants or occupants of the Property. Sublandlord shall use commercially reasonable efforts to prevent and/or rectify any nuisance, waste or unreasonable interferences with or unreasonable disturbances of Subtenant by Sublandlord or any other tenants, subtenants or occupants of the Property. It is expressly acknowledged and agreed that the foregoing shall not prohibit Subtenant from installing and using the generator discussed in Section 5 nor Subtenant's use of the Premises for the permitted hereunder. Subtenant shall not in any manner deface or injure the exterior portion of the Building (excluding penetrations of the exterior and roof of the Building associated with the installation of the generator, Supplemental HVAC (as hereinafter defined) and roof exhaust stacks) or overload any floor of the Premises. Subtenant shall do nothing nor permit anything to be done to its knowledge that would cause the Master Lease to be breached or terminated. Subtenant shall do nothing that may cause Sublandlord's insurance premiums to increase, or cause Sublandlord's insurance to be canceled, after giving effect in such policies to Subtenant's use and occupancy of the Premises pursuant to the terms hereof, including the use of the Premises for laboratory purposes. If, solely as a result of Subtenant's acts (which acts shall be other than the mere use of the Premises for the uses permitted hereunder), the rate of insurance imposed on Sublandlord or on the Property or its contents increases then, Subtenant shall pay to Sublandlord the amount of such increase on demand.
- 8. <u>Rent.</u> Subtenant will pay Sublandlord rent in lawful money of the United States of America ("Base Rent") which shall be legal tender at the time of payment, in advance on the first day of each calendar month during said term, at the office of Sublandlord or at such other place as Sublandlord may from time to time so designate in writing, as follows:
  - (i) For the period commencing the Rent Commencement Date (as hereinafter defined) through and including the last day of the fourth calendar month following the Rent Commencement Date, all Base Rent payable hereunder shall be abated;
  - (ii) For the period from the fifth calendar month following the Rent Commencement Date through the day immediately preceding the first anniversary of the Rent Commencement Date, the sum of \$1,284,412.50 per annum payable in equal monthly installments of \$107,034.38 per month;
  - (iii) For the period first anniversary of the Rent Commencement Date through the day immediately preceding the second anniversary of the Rent Commencement Date, the sum of \$1,327,226.25 per annum payable in equal monthly installments of \$110,602.19 per month;
  - (iv) For the period from the second anniversary of the Rent Commencement Date through the day immediately preceding the third anniversary of the Rent

- Commencement Date, the sum of \$1,370,040.00 per annum payable in equal monthly installments of \$114,170.00 per month;
- (v) For the period from the third anniversary of the Rent Commencement Date through the day immediately preceding the fourth anniversary of the Rent Commencement Date, the sum of \$1,412,853.75 per annum payable in equal monthly installments of \$117,737.81 per month;
- (vi) For the period from the fourth anniversary of the Rent Commencement Date through the day immediately preceding the fifth anniversary of the Rent Commencement Date, the sum of \$1,455,667.50 per annum payable in equal monthly installments of \$121,305.63 per month;
- (vii) For the period from the fifth anniversary of the Rent Commencement Date through the day immediately preceding the sixth anniversary of the Rent Commencement date, the sum of \$1,498,481.25 per annum payable in equal monthly installments of \$124,873.44 per month;
- (viii) For the period from the sixth anniversary of the Rent Commencement Date through thed

imme diately preceding the seve n t h anniversary of t h e Rent Commencement Date, the sum of \$1,541,295.00 per annum payable in equal monthly installments of \$128,441.25 per month;

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- (ix) For the period from the seventh anniversary of the Rent Commencement Date through the day immediately preceding the eighth anniversary of the Rent Commencement Date, the sum of \$1,584,108.75 per annum payable in equal monthly installments of \$132,009.06 per month;
- (x) For the period from the eighth anniversary of the Rent Commencement Date through the day immediately preceding the ninth anniversary of the Rent commencement date, the sum of \$1,626,922.50 per annum payable in equal monthly installments of \$135,576.88 per month; and
- (xi) For the period from the ninth anniversary of the Rent Commencement Date through the Expiration Date, the sum of \$1,669,736.25 per annum payable in equal monthly installments of \$139,144.69 per month.

For purposes of this Sublease, the Rent Commencement Date shall be the earlier to occur of (x) the date which is 151 days following the Sublease Commencement Date and (y) the date which is five (5) business days following the occurrence of the substantial completion of Subtenant's Work. For purposes herein, the phrase "substantial completion of Subtenant's Work" shall mean that, with the exception of minor or insubstantial details of construction, mechanical adjustments, finishing touches or decoration which do not materially interfere with Subtenant's use or occupancy of the Premises (collectively, "Punch-List Items"), Subtenant's Work shall have been completed in accordance with the approved plans and electrical, fire protection, plumbing and all other mechanical systems serving or affecting the Premises which are the responsibility of Sublandlord to maintain

and repair shall then be in working order. Use of offices in the Premises by Subtenant's project management team shall not be deemed to be use or occupancy of the Premises for purposes of this provision.

Rent shall be paid without deduction or set off. The installment of Rent payable for any portion, less than all, of a calendar month shall be a pro rata portion of the installment payable for a full calendar month.

#### 9. Additional Rent.

- 9.01. If Operating Costs, as defined in Sections 9.03, for the Premises for any calendar year during the term of this Lease shall exceed Base Operating Costs, as defined in Section 9.01(a), Subtenant shall pay to Sublandlord as additional Rent an amount equal to Tenant's Proportionate Share, as defined in Section 9.02, of such excess
- a. For each calendar year during the term after the Base Year, Subtenant shall pay Subtenant's Proportionate Share of the increase in Operating Costs for such calendar year over those incurred during the Base Year (the "Base Operating Costs"). The Base Year shall be the calendar year 2019.
- b. Commencing as of the second year of the Sublease Term through the remainder of the term and any extensions thereof. Subtenant shall pay to Sublandlord each month at the same time and in the same manner as monthly base rent one twelfth (1/12th) of Sublandlord's estimated Operating Costs payable by Subtenant for the then-current calendar year over and above said costs with respect to the Base Year. Such monthly amount may be adjusted by Sublandlord at any time on the basis of Sublandlord's experience and reasonably anticipated costs. Within one hundred twenty (120) days after the close of each calendar year, or as soon after such 120-day period as practicable, Sublandlord shall deliver to Subtenant a statement in reasonable detail of the actual amount of Operating Costs payable by Subtenant in accordance with this Article 9 for such calendar year. Sublandlord shall provide Subtenant with such additional information and substantiating documentation upon the request of Subtenant. The statement for the calendar year 2020 shall contain the calculation of the Operating Costs for the Base Year. Sublandlord's failure to provide such statement to Subtenant within the 120-day period shall not act as a waiver and shall not excuse Subtenant or Sublandlord from making the adjustments to reflect actual costs as provided herein. If on the basis of such statement Subtenant owes an amount that is less than the estimated payments for such calendar year previously made by Subtenant, Sublandlord shall credit such excess to Subtenant against future additional rent due under this Article 9 or refund such excess if no future additional rent is due within thirty (30) days of such determination. If on the basis of such statement Subtenant owes an amount that is more than the estimated payments for such calendar year previously made by Subtenant, Subtenant shall pay the deficiency to Sublandlord within thirty (30) days after delivery of the statement. The obligations of Sublandlord and Subtenant under this Section 9.01(b) with respect to the reconciliation between the estimated and actual amounts of Operating Costs payable by Subtenant for the last year of the term shall survive the termination of the Sublease for a period of twelve months. When the

final determination is made of the actual amount of Operating Costs payable by Subtenant for the year in which this Sublease terminates, Subtenant shall pay any increase due over the estimated payments within thirty (30) days of such determination and, conversely, any overpayment made by Subtenant shall be reimbursed to Subtenant by Sublandlord within thirty (30) days of such determination.

- 9.02. "Subtenant's Proportionate Share" is a fraction, the numerator of which is the number of rentable square feet of the Premises as is set forth in the introductory section of this Sublease and the denominator of which is the number of rentable square feet of area in the Building. Landlord represents that the rentable square footage of the Building on the date hereof is 453,189. Subtenant's Proportionate Share may be adjusted from time to time if the area of the Premises or Building changes due to an increase or decrease in the rentable square footage. Subtenant's initial proportionate share is 12.596%.
- 9.03. "Operating Costs" means all reasonable and customary out of pocket costs, expenses, and obligations incurred Sublandlord in connection with the operation, repair or maintenance of the Property during or allocable to the term of this Sublease, including without limitation the following:
- a. All real property taxes, assessments, license fees, excises, levies, charges or impositions and other similar governmental ad valorem or other charges levied on or attributable to the Building or its ownership or operation, and all taxes, charges, assessments or similar impositions imposed in lieu of the same. In all events, any taxes assessed on Subtenant's personal property, or any improvements, alterations or installations made by Subtenant, and any other tax or assessments arising out of the existence of this Sublease except income, estate, or inheritance taxes shall be paid by Subtenant ("Subtenant's Payment"). Subtenant shall, simultaneously with the payment of any sums required hereunder, reimburse Sublandlord for any excise, sales or transaction privilege tax imposed or levied by any governmental agency upon sublandlord as a result of any such Subtenant Payment. Operating Costs shall not include any taxes assessed on Sublandlord's personal property, or any improvement alterations or installations made by Sublandlord in connection with Sublandlord's use or occupancy of any portion of the Property for the operation of its business.
- b. All utility charges paid or incurred by Sublandlord for lights, heat, air conditioning, power, water, sewer, drainage and waste disposal for the common areas of the Building and otherwise supplied to all tenantable areas of the Building.
- c. All other costs paid or incurred by Sublandlord for operation, maintenance, replacement and repair including, without limiting the generality of the foregoing, the following: security, landscape maintenance, pest control, reasonable management fees (not to exceed three percent (3%) of the Base Rent payable in the appropriate calendar year), supplies, insurance, cost of service of independent contractors to provide any required service to all tenants of the Building, wages (including employment taxes and fringe benefits) of all employees (below the grade of building manager) performing services uniformly available to or performed for all building tenants, licenses and permits for the operation of the Property (as opposed to Sublandlord's operation of its business

at the Property), equipment and tools, and professional fees which reduce or attempt to reduce Operating Costs (to the extent permitted in Section 9.04).

- 9.04. Operating Costs shall not include alterations performed for any tenant of the Building (including Subtenant) or contribution or allowance in lieu thereof, depreciation, interest on any payment made by Sublandlord, leasing fees or capital expenditures required to be capitalized under generally accepted real estate accounting practices. However, capital expenditures made to reduce the Operating Costs may be included and amortized over the useful life of the improvement involved provided such allocation does not exceed the reasonable estimate of annual cost savings. Operating Costs shall also exclude building compliance costs, reserves, costs related to hazardous materials, costs to correct original construction defects, costs related to casualty and costs related to Sublandlord's negligence. Operating Costs shall also not include:
- (a) all rental payments under the Master Lease;
- (b) the cost of any item for which Sublandlord is reimbursed by insurance or otherwise compensated, including reimbursement by any tenant;
- (c) all franchise, income, transfer, gains, occupancy, corporate, gross receipts or business taxes imposed on Sublandlord;
- (d) costs and expenses incurred by Sublandlord only by reason of Sublandlord's negligence, willful misconduct, or breach of Sublandlord's obligations under this Sublease;
- (e) interest, principal payments, and other costs of any indebtedness encumbering the Property;
- (f) legal fees, space-planner's fees, architectural fees, engineering fees, real estate commissions, and marketing and advertising expenses incurred in connection with the development, leasing and construction of the Building or any addition thereto:
- (g) costs of selling, financing, mortgaging, hypothecating, assigning or subleasing Sublandlord's interest in the Property;
- (h) Sublandlord's advertising, entertainment and promotional costs for the Property;
- (i) legal fees for disputes with tenants and legal and auditing fees, other than legal and auditing fees reasonably incurred in connection with the maintenance and operation of the Building or in connection with the preparation of statements required pursuant to additional rent or lease escalation provisions of this Sublease;
- (j) the incremental cost of furnishing services during any non-business hours, to any tenant, including Subtenant at such tenant's expense;
- (k) costs incurred in performing work or furnishing services for individual tenants (including Subtenant) at such tenant's expense and not furnished to all tenants; (I) any rent, penalties or interest payable under Master Lease;
- (m) costs incurred in connection with making any alteration or addition to the Property to increase the rentable square footage of the Building; and

(n) costs of installing a specialty service such as messenger center, cafeteria or fitness club.

All references to "tenant" or "other tenant" shall be deemed to include Sublandlord in its capacity as a tenant of the Building.

9.05 By giving Sublandlord written notice within one hundred eighty (180) days after receipt of the year end statement of the adjustment to the Operating Costs for the prior calendar year, Subtenant may dispute in writing any specific item or items included in determining Operating Costs, and/or Subtenant shall have the right to audit and photocopy Sublandlord's records related to the calculation of Sublandlord's Operating Costs. Subtenant's right to audit and photocopy Sublandlord's records shall extend to the statement rendered with respect to the Base Year. Notwithstanding any dispute, Subtenant shall pay Sublandlord the sums required as set forth in Section 9.01. Subtenant agrees to maintain the confidentiality of all information provided by Sublandlord, and Sublandlord agrees to cooperate with Subtenant to resolve any audit concerns. After resolution of the dispute, Sublandlord and Subtenant agree that any required rental adjustments will be remitted to the other within thirty (30) days and the appropriate adjustment will be made to the monthly rental payment as required in Section 9.01.

9.06 In determining the amount of the Operating Costs for any calendar year, if less than 95% of the rentable square feet of the Building shall have been occupied by tenants at any time during such year, then the Operating Costs for such year, including the Base Year, shall be grossed up to reflect the Operating Costs estimated to be incurred if ninety-five percent (95%) of all such rentable square feet of the Building had been occupied throughout such calendar year.

- 10. <u>Services</u>. (a) Sublandlord shall furnish to the Premises, at Sublandlord's sole cost and expense, with the following services to the Premises throughout the Sublease Term:
  - (i) on business days, daily cleaning services to the Premises, the common areas of the Building and the restrooms in a manner as provided by similar multi-tenant building in the Austin, Texas area. Supplemental cleaning needs for the lab space will be passed directly through to the Subtenant.
  - (ii) electricity for lighting, office and laboratory equipment and machinery and the HVAC, and gas to the Premises throughout the Term; Supplemental HVAC shall be separately metered with the cost and maintenance the sole responsibility of Subtenant.
  - (iii) hot and cold water to the Premises for Subtenant's use in the Premises and to the lavatories in or serving the Premises:
  - (iv) heating, ventilation and air conditioning through the Building systems as seasonally required 8 am to 6 pm Monday through Friday and 8 am to 1 pm on Saturdays; and
  - (v) security for the Building in a manner provided by similar multi-tenant buildings in the City of Austin, Texas.

- (b) Failure by Sublandlord to any extent to furnish such services or any cessation thereof of Sublandlord shall not render Sublandlord liable in any respect for damages to either person or property, nor be construed as an eviction of Subtenant, nor cause an abatement of rent, nor relieve Subtenant from fulfillment of any convenient or agreement hereof. Should any of such services be interrupted, Sublandlord shall use reasonable diligence to restore same promptly, but Subtenant shall have no claim for rebate of rent or damages or eviction on account thereof, except as set forth herein.
- (c) Notwithstanding any provision in this lease to the contrary, if any essential building services furnished by the Sublandlord (i.e. electricity, water, sewer, restroom facilities, elevator service or HVAC systems) are interrupted or diminished in any material way, and the occurrence of such event (or the restoration of such services) is not due to (i) the negligence of intentional misconduct of Subtenant, (ii) the failure or nonperformance by a public utility, (iii) the occurrence of fire or other event of casualty, (iv) the exercise of the power of eminent domain, or (v) the occurrence of a force majeure event, and if Subtenant's use and enjoyment of the Premises, or any material portion thereof, for the conduct of its business therein is materially and adversely affected as a result of such condition or the interruption of diminution in such essential building services, to the extent that the Premises, or a portion thereof, are untenable for the operation of Subtenant's business then currently conducted in such portion (the "Service Interruption") and Subtenant furnished written notice of the Service Interruption to Sublandlord as soon as practical following the occurrence thereof (the "Interruption Notice") and such Service Interruption Continues for a period of three (3) consecutive business days following the Sublandlord's receipt of the Interruption Notice, Subtenant shall be entitled to an equitable abatement of Rent (Base Rent and Additional Rent) in proportion to those portions of the Premises rendered untenable, beginning on the fourth (4th) business day after Sublandlord's receipt of the Interruption Notice, until such services are restored or repairs completed.
- (d) Subtenant shall have access to the Premises seven days per week, twenty-four hours per day. Subtenant shall make its own arrangements for telecommunications and internet service. Sublandlord shall permit Subtenant's service providers with access to the main connection point in the Building. Subtenant shall have the right to use such telecommunication wiring presently installed which services the Premises. In addition, Subtenant shall have the right to use riser and shaft space sufficient for the installation of any additional telecommunications cables and wiring. Subtenant shall also have the right to use such riser and shaft space for the installation of wiring to connect the generator to the Premises. Subtenant shall be responsible for independently securing their equipment where located. Subtenant shall be responsible for adding conduit where needed from phone room to sublease space and shall complete any work disruption to Sublandlords space. Subtenant shall remove the tele/data wiring associated with the Subtenant space at lease termination to meet the NEC requirements.
- (e) Subtenant shall have the right to install a supplemental heating, ventilation and air conditioning system ("Supplemental HVAC") to exclusively serve all or part of the Premises. In the event it is reasonably necessary, Subtenant shall have the right to install and maintain throughout the Sublease Term equipment associated with the Supplemental HVAC outside of the Premises, including on the roof of the Building, in a location mutually and reasonably

agreeable to Sublandlord and Subtenant and Subtenant shall have the right to use shaft and riser space and make such roof penetrations as reasonably necessary to connect such equipment with the Premises. Subtenant shall have structural engineer confirm that the Building can support the weight of the proposed unit and that it meets all applicable code and zoning requirements.

#### 11. Repair and Maintenance.

Throughout the Term, Sublandlord shall be responsible for the condition, operation, repair, replacement, maintenance and management of the Property, including the Building, the Premises and the Common Areas. Sublandlord shall, at its sole cost and expense, be responsible for (a) keeping all of the Building, and other improvements erected on the Property in good order and repair, reasonable wear and tear excepted, including without limitation, the roof and the Building heating, ventilation and air conditioning system and other electrical and mechanical systems; (b) subject to the terms of the Master Lease, making all necessary structural, non-structural, exterior and interior repairs and replacements to any Building or improvements erected on the Property; (c) maintaining the Exterior Areas (as defined in the Master Lease) in good condition and repair; and (d) paying all costs of operating the Property in the ordinary course of business. Sublandlor d shall keep the Property in a neat and sanitary condition and shall not commit any nuisance or waste in, on or about the Property. Sublandlord's repairs shall be at least equal in quality and workmanship to the original work and Sublandlord shall make the repairs in accordance with all applicable laws. Sublandlord shall regularly and periodically sweep and clean the driveways and parking areas. Sublandlord shall be responsible for removal of snow, leaves and debris in the driveways and parking areas. Sublandlord shall, subject to Section 9, make any necessary (x) structural repairs or structural replacements to the Premises and (y) repairs or replacements to (i) any fire alarm and communication system in the Premises (unless installed by Subtenant), and (ii) any sprinkler system in the Premises (unless installed by Subtenant). Subtenant shall give Sublandlord prompt notice of any accident or needed repairs or replacements which are the responsibility of Sublandlord.

Subtenant shall be responsible for the maintenance, repair and replacement of the Supplemental HVAC. Subtenant shall have access to the roof for purposes of maintaining, repairing and replacing the Supplement HVAC equipment installed thereon twenty-four hours per day, seven days per week. Subtenant shall have the right to enter into and maintain such maintenance and service contracts as Subtenant determines in connection with satisfying its obligations under this Section 11. Subtenant's repairs shall be at least equal in quality and workmanship to the original work, and Subtenant shall make the repairs in accordance with all Laws.

If, after the Sublease Commencement Date, any Governmental Authority requires any alteration to the Premises as a result of Subtenant's particular use of the Premises or as a result of any alteration to the Premises made by or on behalf of Subtenant (other than the Demising Work), Subtenant shall pay the cost of all such alterations or the cost of compliance, as the case may be. Sublandlord shall otherwise be required to comply with

any requirement applicable to the Premises and/or the Building and pay the cost of all such alterations or the cost of compliance, as the case may be.

At the expiration or other termination of this Sublease, Subtenant will surrender peaceable possession of the Premises in good condition and repair, reasonable wear and tear excepted, and if terminated pursuant to Section 26 or Section 27 hereof, damage by casualty or condemnation excepted. Subtenant shall have no obligation to remove any permitted alterations or improvements made to the Premises. Notwithstanding the foregoing, prior to the Expiration Date, Subtenant shall remove the generator and all fixtures or improvements installed by Subtenant in connection with Subtenant's use of the Premises as a laboratory, but Subtenant shall have no obligation to remove any plumbing or electrical equipment installed within the walls, ceilings or floors of the Premises but the same shall be capped and concealed within the walls, floor or ceiling as the case may be. In addition, once the fixtures and improvements are removed from that the portion of the Premises used by Subtenant as a laboratory, Subtenant shall restore such portion of the Premises used as a laboratory (but no other portion of the Premises) to substantially the same condition it was delivered to Subtenant on the Sublease Commencement Date, reasonable wear and tear and natural deterioration excepted, and except that Subtenant shall have no obligation to prepare walls for paint or otherwise paint any portion of the Premises. Subtenant shall remove the Supplemental HVAC and exhaust stacks installed on the roof of the Building and seal, in good and workmanlike manner, all roof penetrations associated therewith. In the event of a Subtenant Default, Sublandlord may, in its sole discretion, require Subtenant to remove any permitted alterations or improvements made to the Premises. Subtenant shall have the right to remove its moveable trade fixtures, demountable walls, audio visual equipment, laboratory equipment and other personal property from the Premises. Subtenant will promptly repair any damage to the Premises caused by such removal. All property of Subtenant not removed on or before the last day of the Term shall be deemed abandoned if not removed by Subtenant within thirty (30) days after written notice from Sublandlord.

- 12. <u>Alterations</u>; <u>Subtenant's Work</u>. (a) Subtenant shall not, except with Sublandlord's prior written consent, make or cause to be made any alterations, additions or improvements to the Premises. Sublandlord's consent shall not be unreasonably withheld, conditioned or delayed. Notwithstanding the foregoing, Subtenant shall have the right to make cosmetic and non-structural alterations to the Premises without the consent of Sublandlord. It is further understood and agreed by and between the parties hereto that if Subtenant installs furniture, fixtures, or other equipment with the written consent of Sublandlord, the furniture, fixtures, or other equipment may be, but is not obligated to be, detached and removed by Subtenant at the expiration of this Sublease. Subtenant agrees to repair any damages caused by the removal of any of its furniture, fixtures, or other equipment.
  - (b) Subtenant shall pay the cost and expense of all alterations. Prior to commencing any alterations, Subtenant shall procure or require its contractor to procure on its behalf and maintain in effect during the performance of any alterations: (a) if applicable due to the nature of the alterations, builder's "all risk" insurance in an amount at least equal to the replacement value of the alterations, and (b) commercially reasonable liability insurance insuring against construction related risks. If requested by Sublandlord, Subtenant shall, before commencing alterations or delivering (or accepting delivery of) any materials to be

used in connection with the alterations, deliver to Landlord proof of insurance required by this Subsection.

- (c) Notwithstanding anything to the contrary set forth herein, Sublandlord hereby consents to the alterations and improvements to the Premises as depicted on the floor plan sketch attached hereto as Exhibit "G" subject, however, to Sublandlord's approval of Subtenant's final plans and specifications. Prior to the commencement of Subtenant's Work, Subtenant shall submit to Sublandlord plans and specifications ("Plans") for Subtenant's Work. Sublandlord shall have fifteen (15) business days from receipt of the Plans to review and comment or approve the Plans. If Sublandlord fails to provide details comments to the Plans or approve the Plans within said fifteen (15) business day period, Sublandlord's consent to the Plans and Subtenant's Work shall be deemed given. Plans for any work that meets the definition of Structural Alterations per the Master Lease must be provided to Sublandlord at least 45 days prior to starting work to enable Sublandlord to notify Landlord In accordance with the Master Lease. In no event may Sublandlord unreasonably withhold or condition its consent of the Plans in a manner which would prevent Subtenant's use of the Premises for laboratory provided such Plans are in compliance with applicable laws.
- 13. <u>Liens</u>. Subtenant shall keep the Premises free and clear of liens arising out of any work performed, materials furnished, or obligations incurred by Subtenant, including mechanics' liens.
- 14. <u>Parking</u>. Subtenant shall have the right to use not less than 285 parking spaces at the Building including eight (8) reserved parking spaces identified on Exhibit "H" attached hereto.
- 15. <u>Signs</u>. Subtenant will not place any signs or other advertising matter or material on the exterior or on the interior of the Premises (which can be seen from the exterior) or of the building without the prior written consent of the Sublandlord first had and obtained, which consent shall not be unreasonably withheld, conditioned or delayed. Any sign or symbol placed on the exterior of the Building or in the windows or doors of the Building so as to be visible from the street that is not reasonably satisfactory to Sublandlord, shall be removed immediately on demand by Sublandlord and if not so removed within ten (10) days will constitute breach of this Sublease. Subtenant will be permitted to list its name on the Building Directory at no charge during the Sublease Term. Subtenant shall also have the right to install its name and/or logo on exterior, road-side monument signage identified on Exhibit "I" hereto and in the entrance lobby of the Building, at no cost, except for initial installation and removal of sign at the end of the term.
- 16. <u>Hazardous Materials</u>. (a) Subtenant will not cause any Hazardous Materials (as hereinafter defined) to be brought upon or kept or used in the Property or Premises in a manner or for a purpose prohibited by any Hazardous Materials Law (as hereinafter defined). Subtenant, at its sole cost and expense, will comply with all Hazardous Materials Laws and prudent industry practice relating to the presence, treatment, storage, transportation, disposal, release or management of Hazardous Materials in, on or under the Premises or Property required for Subtenant's use of the Premises or Property.

Subtenant will notify Sublandlord of any release of any Hazardous Materials, enforcement, clean-up, removal or other governmental or regulatory action instituted, completed or threatened under any Hazardous Materials Law, any loss or injury resulting from or claimed to result from Hazardous Materials, and deliver to Sublandlord any notices, warnings or asserted violation relating to the Premises or Subtenant's use of the Premises or common areas of the Property.

- (b) Subtenant shall indemnify and hold the Sublandlord fully harmless against any and all claims or any expenses of any kind whatsoever (including consultants' fees, experts' fees, and reasonable attorneys' fees) arising or resulting, in whole or in part, directly or indirectly, from the presence, treatment, storage, transportation, disposal, release or management of Hazardous Materials in, on or under the Premises resulting from the Subtenant's use of the Premises.
- (c) "Hazardous Materials" shall mean any of the following, in any amount other than small quantities of office cleaning and other office supplies as are customarily used by Tenant in the ordinary course of business; (a) any petroleum or petroleum product, asbestos in any form, urea formaldehyde and polychlorinated biphenyls; (b) any radioactive substance; (c) any toxic, infectious, reactive, corrosive, ignitable or flammable chemical or chemical compound; and (d) any chemicals, materials or substances, whether solid, liquid or gas, defined as or included in the definitions of "hazardous substances," "hazardous wastes", "Hazardous materials", "extremely hazardous wastes", "restricted hazardous wastes," "toxic substances," "toxic pollutants," "solid wastes," or words of similar import in any federal, state or local statute, law, ordinance or regulation now existing or existing on or after the Effective Date as the same may be interpreted by government offices and agencies.
- (d) "Hazardous Materials Laws" means any federal, state or local statutes, laws, ordinances or regulations now existing or existing after the Sublease Commencement Date that control, classify, regulate, list or define Hazardous Materials.
- 17. <a href="Indemnification">Indemnification</a> and Hold Harmless</a>. Subtenant shall indemnify and save Sublandlord harmless from and against any and all liabilities, claims and costs (including reasonable attorney's fees, penalties and fines) for death, injury or damages to persons or property during the Sublease Term, arising from (a) any default by Subtenant in the performance of its obligations under this Sublease, or (b) the negligence, or intentional acts or omissions of Subtenant in or about the Property. This hold harmless and indemnity shall survive termination of this Sublease. Sublandlord shall indemnify and save Subtenant harmless from and against any and all liabilities, claims and costs (including reasonable attorney's fees, penalties and fines) for death, injury or damage to persons or property during the Sublease Term in or about the Property, arising from (a) any default by Sublandlord in the performance of its obligations under this Sublease or the Master Lease, or (b) the negligence or intentional acts or omissions of Sublandlord.
- 18. <u>Subtenant Insurance Requirements</u>. (a) Subtenant agrees to carry at its own expense throughout the Sublease Term, commercial general liability insurance insuring both Sublandlord and Subtenant against all claims, demands or actions arising out of or in

connection with Subtenant's use or occupancy of the Premises, or by the condition of the Premises with minimum limits of \$3,000,000 each occurrence and \$5,000,000 general aggregate. Subtenant shall name Sublandlord as an additional insured.

- (b) Subtenant agrees to carry property insurance at least as broad as the ISO Special Form in an amount not less than the full insurable replacement cost of all Subtenant's trade fixtures and other personal property within the Premises. Coverage shall include business income insurance covering at least six (6) months of Base Rent payable hereunder.
- (c) Subtenant shall maintain statutory workers' compensation and employers' liability insurance covering all persons employed by the Subtenant on the Premises in the minimum amounts as required by state law.
- (d) Subtenant shall deliver a Certificate of Insurance to Sublandlord prior to the date of occupancy of the Premises and said insurance policy shall list and protect Sublandlord and Subtenant as their interests may appear and shall contain an endorsement stating that the insurer agrees to give no less than thirty (30) days prior written notice to Sublandlord in the event of modification or cancellation thereof. Subtenant shall be responsible for its own personal property insurance.
- (e) If Subtenant fails to maintain the insurance coverage required of it under this Section, and such failure continues for ten (10) business days following written notice thereof from Sublandlord to Subtenant, Sublandlord may procure and maintain the insurance on Subtenant's behalf and charge Subtenant for all related costs and expenses including without limitation, premium costs, brokerage costs/commissions as additional rent.
- 19. Right of First Refusal. Subtenant shall have a one (1) time Right of First Refusal on the each of the remaining two wings of the 3rd floor, collectively or individually. The terms and conditions for the Right of First Refusal shall be based on the same terms and conditions as the initial Sublease. Prior to the execution of a sublease or other agreement with a third party for the use or occupancy of either or both of said remaining wings, Sublandlord shall deliver written notice to Subtenant identifying the wing or wings available for sublease and the date for delivery of possession. The Right of First Refusal granted to Subtenant must be exercised by delivery of written notice to Sublandlord within five (5) business days of receipt of such notice by Subtenant. If Subtenant timely exercises its right to sublease such wing or wings, the parties shall execute an amendment to this Sublease incorporating such space. If such notice is for only one of the wings, Subtenant's Right of First Refusal shall remain in full force and effect for the other wing regardless of whether Subtenant exercised its right for the first wing offered. Sublandlord shall not grant any other present or future subtenant of the Property a right to first refusal or first offer with respect to either wing on the 3rd floor.
- 20. <u>Financials</u>. Subtenant shall not be required to provide Sublandlord a yearly balance sheet and income statement every 6 months on the condition that Subtenant's financial information is publicly available to Sublandlord.

#### 21. Intentionally Omitted.

- 22. Waiver of Subrogation. Subtenant and Sublandlord each waives its right of recovery against the other and each releases the other from any claim arising out of loss, damage, destruction to the Property and other improvement on the Premises, or contents on, or in the Premises to the extent its respective property is covered by Subtenant's policy of insurance as required herein of Sublandlord's policy of insurance as required under the Master Lease, whether or not the loss, damage, or destruction may be attributable to Sublandlord's negligence, provided, however, the waiver or release shall not be applicable to any loss, damage, or destruction caused by Subtenant's negligence or intentional acts or omissions. Each party hereto agrees, if required by its insurance policy or policies, to give to each insurance company which has issued to it fire and other property insurance, written notice of the notice of the terms of said mutual waivers, and to have said insurance properly endorsed, if necessary, to prevent the invalidation of said insurance coverage by reason of said waivers.
- 23. Letter of Credit. Subtenant shall deliver to Sublandlord, within thirty (30) days after the execution of this Sublease, an irrevocable and unconditional Letter of Credit (herein, together with all replacements thereof, being called the "Letter of Credit") issued by a national bank or financial institution reasonably acceptable to Sublandlord. Sublandlord hereby approves of Silicon Valley Bank as the issuing bank. The Letter of Credit shall be in the amount of \$3,000,000.00, provided, however, that (i) after the thirty-sixth (36th) full calendar month of the term of this Sublease, the Letter of Credit will be reduced to the amount of \$2,000,000.00, (ii) after the forty-eighth (48th) full calendar month of the term of this Sublease, the Letter of Credit will be reduced to the amount of \$1,000,000.00 and (iii) after the sixtieth (60th) full calendar month of the term of this Sublease, the Letter of Credit will be reduced to the amount of \$500,000.00. The reduction in the Letter of Credit may be effectuated by an amendment to the Letter of Credit or delivery of a replacement Letter of Credit. Sublandlord shall reasonably cooperate with Subtenant to effectuate the exchange of the Letter of Credit, if applicable.

The term of the Letter of Credit shall extend from the date of this Sublease through the last day of the Sublease Term (as may be extended). At Subtenant's option, the initial Letter of Credit may be for a term of not less than one (1) year, and, in such event, such Letter of Credit shall be extended by Subtenant for periods of not less than one (1) year each so that the Letter of Credit, as extended and replaced, remains continually in existence during the entire period required in this Section 23. Notwithstanding any provisions to the contrary herein, if such Letter of Credit is for a term shorter than the entire period required for the Letter of Credit in this Section 23 (i.e., the entire period commencing on the date of issuance of the Letter of Credit, and ending on the last day of the term of this Sublease, as may be extended) and Sublandlord shall not receive, at least thirty (30) days prior to the expiration date of such Letter of Credit, a replacement Letter of Credit in form and substance identical to said Letter of Credit so expiring and otherwise satisfying the obligations herein, Sublandlord may, without any further notice draw upon the entire amount of the Letter of Credit and hold the proceeds thereof as cash security. Subtenant shall thereafter provide a replacement Letter of Credit no later than ten (10) days following such draw. Notwithstanding the foregoing, failure of Subtenant to provide a replacement

Letter of Credit for any expired Letter of Credit within said ten (10) day period shall be an Event of Default by Subtenant. Upon delivery of the same to Sublandlord, Sublandlord shall return the cash security deposit to Subtenant. Sublandlord shall only have the right to draw upon the Letter of Credit or the cash security deposit upon the default, beyond applicable periods of notice and grace, of Subtenant's obligations under this Sublease. The Letter of Credit or the cash security deposit, as applicable, shall be returned to Subtenant within thirty (30) days following the Expiration Date or sooner termination of this Sublease. Sublandlord shall assign the Letter of Credit or cash security to any assignee of its interest under the Master Lease.

The Letter of Credit shall be in form reasonably acceptable to Sublandlord, in its sole discretion, and shall provide that the only condition to a draw under the Letter of Credit shall be the presentation by Sublandlord of a sight draft certifying that Sublandlord is entitled to draw upon the Letter of Credit in accordance with the terms of the Sublease. The Letter of Credit shall provide that it is governed by the International Chamber of Commerce's International Standby Practices ("ISP98") except to the extent that the terms thereof are inconsistent with the provisions of the ISP98, in which case the terms of the Letter of Credit shall govern. The Letter of Credit shall provide that draw requests need not be presented as originals and may be submitted by courier or by facsimile. and it should include the issuing bank's address and facsimile number. The Letter of Credit shall be transferable and assignable multiple times by Sublandlord to Sublandlord's successor in interest in the Building. Sublandlord shall pay all reasonable costs and shall take all steps necessary for any such proposed transfer or assignment of the Letter of Credit, provided Subtenant fully cooperates with any such transfer or assignment, and Subtenant further acknowledges that the unlimited transferability of the Letter of Credit is a material provision of this Sublease. The Letter of Credit may be drawn in whole or in part by Sublandlord (at Sublandlord's option) from time to time (and more than one time for partial draws) upon the occurrence of any Event of Default by Subtenant under this Sublease, which default is not cured within any applicable notice and cure period (provided, however, that if the giving of any notice of default by Sublandlord is barred by applicable law, no such notice shall be required as a condition to Sublandlord's draw under this Letter of Credit, and Sublandlord may draw upon the Letter of Credit notwithstanding that no such notice was given and no such cure period commenced), and without any further notice to Subtenant. Sublandlord may draw upon the Letter of Credit without proceeding against any person or exhausting any other remedies which Sublandlord may have and without resorting to any other security held by Sublandlord. Sublandlord may apply the proceeds of the Letter of Credit in any order or manner to any amounts owed by Subtenant under or pursuant to this Sublease. All amounts drawn by Sublandlord under the Letter of Credit and applied in accordance with this Sublease shall immediately become the property of Sublandlord and shall be retained by Sublandlord. To the extent any amounts in excess of those applied to sums due and owing by Subtenant are drawn by Sublandlord, the excess shall be held by Sublandlord as cash security hereunder. In no event shall any such application cure any event of default by Subtenant under this Sublease. Furthermore, in no event shall the Letter of Credit, or Sublandlord's right to draw upon the Letter of Credit, be affected or impaired by (A) the waiver, compromise, settlement, termination or other release of the performance or observance by any person liable or to become liable for the obligations under this

Sublease; (B) the modification or amendment (whether material or otherwise) of any obligation, covenant or agreement set forth in this Sublease; (C) the voluntary or involuntary liquidation, dissolution, sale of all or substantially all of the assets, marshalling of assets and liabilities, receivership, conservatorship, insolvency, bankruptcy, assignment for the benefit of creditors, reorganization, arrangement, composition or readjustment of, or any similar proceeding affecting Subtenant, or any allegation or contest of the validity of this Sublease; or (D) the taking or the omission of any of the actions referred to in this Sublease. If all or any portion of the Letter of Credit is drawn upon and properly applied by Sublandlord, Subtenant shall, within fourteen (14) days after written demand therefor, reinstate the Letter of Credit for the full amount required pursuant to this Section 23. The failure of Subtenant to comply with the provisions of this Section 23 shall constitute an Event of Default under this Lease.

- 24. <u>Default by Subtenant</u>. (a) Each of the following occurrences shall be considered a "Default": (i) Subtenant's failure to pay any portion of Rent or Additional Rent within five (5) days of when due; and (ii) Subtenant's failure to comply with any term, provision, condition or covenant of this Sublease, if the failure is not cured within thirty (30) days after written notice to Subtenant of such failure. In the event a default in the nature of clause (ii) above cannot be remedied using commercially reasonable efforts within such thirty (30) day period, Subtenant shall not be in Default provided Subtenant commences commercially reasonably steps to remedy the Default within said thirty (30) day period and delivers written notice to Sublandlord of the same, and thereafter diligently prosecutes the same to completion.
  - (b) Upon a Subtenant Default, Sublandlord may choose: (a) re-enter the Premises and terminate this Sublease and hold Subtenant responsible for all damages resulting from the breach; or (b) re-enter the Premises, keep this Sublease intact, and attempt to relet the Premises on behalf of Subtenant as Subtenant's agent; or (c) choose not to re-enter but to hold Subtenant responsible for all terms of this Sublease. Upon re-entering the Premises, Sublandlord may relet the Premises or any part thereof for such term, on such conditions, and at such rental as Sublandlord may deem advisable with the right to make alterations and repairs to the Premises and no such reentry shall be considered or construed to be forcible entry or detainer.
- 25. <u>Default by Sublandlord</u>. In the event that Sublandlord defaults in the performance or observance of any of Sublandlord's obligations under this Sublease, then Subtenant will give Sublandlord written notice of Sublandlord's default. Sublandlord shall remedy any default by Sublandlord hereunder within thirty (30) business days after the date of Subtenant's notice, this period will be extended for an additional reasonable time, provided that Sublandlord commences to cure such default within such thirty (30) day period and proceeds diligently thereafter to effect such cure as quickly as possible.
- 26. <u>Eminent Domain</u>. (a) If during the Sublease Term, a condemning authority takes the whole of the Premises or of the Property, this Sublease will terminate on the date that the condemning authority takes possession of the Premises. Subtenant shall receive a refund of all amounts paid on account hereunder with respect to the period from and after the taking.

- (b) If during the Sublease Term, a condemning authority takes only a portion of the Premises, this Sublease shall terminate as to the portion of the Premises taken as of the date that the condemning authority takes possession of that portion. Rent shall be equitably adjusted according to the remaining Premises. Notwithstanding the foregoing, if thirty percent or more of the Premises is taken, Subtenant shall have the right to terminate this Sublease and receive a refund of all amounts paid on account hereunder with respect to the period from and after the taking.
- (c) Sublandlord shall be entitled to receive and keep all damages awards or payments resulting from or paid on account of a taking, subject to the terms of the Master Lease; provided, however, that Subtenant may make a claim for a separate award for the value of Subtenant's moveable trade fixtures and equipment, for moving costs, and loss of good will and retain the proceeds thereof. Accordingly, Subtenant waives and assigns to Sublandlord any interest of Subtenant in any such damages, awards or payments except with respect to Subtenant's separate claim.
- 27. <u>Casualty</u>. (a) If during the term of this Sublease, the Premises or the Property are destroyed or damaged in whole or in part by fire or other casualty, then either party shall have the option to terminate this Sublease if: (i) less than twenty-four (24) months remain under the term of the Master Lease, and (iii) restoration of the Property cannot be completed in less than one hundred eighty (180) days after the date of the casualty, as reasonably determined by Sublandlord, upon delivering of written notice to the other party.
  - (b) If this Sublease is not terminated in accordance with this Section following a casualty or fire, Sublandlord shall restore the damaged portions of the Premises substantially to the same condition as existed prior to the fire or casualty with all reasonable diligence and speed. Rent shall be abated on a reasonable basis, in proportion to the portion of the Premises, if any, which are rendered untenantable from the date of damage until the completion of Sublandlord's repairs, unless Subtenant caused such damage, in which case, Subtenant shall continue to pay Rent without abatement.
- 28. <u>Assignments, and Subleases</u>. Subtenant shall not assign this Sublease, or sell, or sublet the Premises, without Sublandlord's prior written consent. which consent shall not be unreasonably withheld, conditioned or delayed. This Sublease shall not be assigned by operation of law. Any consent given by Sublandlord to any assignment of this Sublease, or Sublease of the Premises or any part of them, shall not bar Sublandlord from subsequently refusing to consent to any further assignment or sublease. Any attempt to sell, or sublet without the consent of Sublandlord shall be deemed as a default by Subtenant, and entitle Sublandlord to remedies described in Section 24. Notwithstanding the foregoing, over-the-counter stock market transactions shall not be deemed to be assignments under this Sublease.
- 29. <u>Access</u>. Subtenant shall allow Sublandlord or Landlord, and their agents, access at all reasonable times to the Premises upon reasonable prior notice for the purpose of inspecting or making repairs, additions, or alterations to the Premises. Subtenant shall

- have the right to require a representative of Subtenant to be present during any access by Sublandlord or Landlord.
- 30. <u>Insolvency or Bankruptcy</u>. If Subtenant becomes insolvent or involuntarily bankrupt, or it a receiver, assignee, or other liquidating office is appointed for the business of Subtenant, and Subtenant is otherwise in Default under this Sublease, then Sublandlord may terminate this Sublease at its option with notice.
- 31. <u>Quiet Enjoyment</u>. Sublandlord covenants that Subtenant shall, while Subtenant is not in default of the terms of this Sublease, peaceably and quietly hold and enjoy the Premises for the Sublease Term, without interference or hindrance from Sublandlord or person claiming by or through Sublandlord or other third parties.
- 32. Smoking. Smoking is strictly prohibited at all times in the Premises and the Building.

  Subtenant shall be responsible for ensuring that its employees, subcontractors, agents, officers, contractors, licensees, invitees, and guests, strictly adhere to this Smoking policy. The term "Smoking" means inhaling, exhaling, breathing, or carrying any lighted cigar, cigarette, or other tobacco product or similar lighted product, including any vaping materials, in any manner or in any form.
- 33. <u>Surrender.</u> (a) Except as otherwise provided in Section 11 hereof, upon expiration of the Sublease Term or earlier termination of this Sublease, Subtenant shall surrender the Premises without notice and will deliver to Sublandlord the Premises in its then "as is" condition. Notwithstanding the foregoing, in the event of a Subtenant Default, Sublandlord may, in its sole discretion, require Subtenant to remove any permitted alterations or improvements made to the Premises.
  - At least three (3) months prior to the surrender of the Premises, Subtenant shall deliver to Sublandlord a narrative description of the actions proposed (or required by any governmental authority) to be taken by Subtenant in order to surrender the Premises (including any Alterations permitted to remain in the Premises pursuant to the terms hereof, including, without limitation, Section 11 at the expiration or earlier termination of the Term, consistent with Subtenant's obligations under in this Section (the "Surrender Plan"). Subtenant's Surrender Plan shall state that, (a) (i) all laboratory space, including floors, walls, ceilings, counters, piping, supply lines, waste lines and plumbing in or serving the Premises and all exhaust or other ductwork in or serving the Premises, and (ii) any applicable systems shared by laboratory space, including without limitation exhaust or other ductwork, in or serving the Premises have been de-commissioned to the extent required by, and in accordance with, applicable laws and in accordance with best industry practice; (b) the interior surfaces of the Premises (including floors, walls, ceilings, and counters), piping, supply lines, waste lines and plumbing, and all such exhaust or other ductwork in the Premises, may be reused by a subsequent Subtenant or disposed of in compliance with applicable laws without: (i) incurring special costs on account of uncompleted de-commissioning work; (ii) undertaking special procedures for demolition, disposal, investigation, assessment, cleaning or removal of such Hazardous Materials related to the former laboratory use areas of the Premises; or (iii) giving notice in connection with such Hazardous Materials; and (c) the Premises may be reoccupied

for office or laboratory use, or demolished or renovated without: (i) incurring special costs on account of uncompleted de-commissioning work; (ii) undertaking special procedures for disposal, investigation, assessment, cleaning or removal of Hazardous Materials; or (iii) giving notice in connection with Hazardous Materials. Further, for purposes of clauses (b) and (c), "special costs" or "special procedures" shall mean costs or procedures, as the case may be, that would not be incurred but for the nature of the Hazardous Materials as Hazardous Materials instead of non-Hazardous Materials. The final report shall also include reasonable detail concerning the clean-up measures taken, the clean-up locations, the tests run and the analytic results applicable to the above.

Subtenant shall surrender the Leased Premises to Sublandlord free of Hazardous Materials (subject to the requirements of Sections 6 and 16) brought upon, kept, used, stored, handled, treated, generated in, or released or disposed of from, the Premises by any person claiming by, through or under Subtenant (collectively, "Subtenant Laboratory Operations") and released of all licenses, clearances or other authorization of any kind arising by, through or under Subtenant and required to enter into and restore the Premises issued by any governmental authority having jurisdiction over the use, storage, handling, treatment, generation, release, disposal, removal or remediation of Hazardous Materials, broom clean, ordinary wear and tear and casualty loss and condemnation excepted. Subtenant's Surrender Plan shall be accompanied by a current listing of (i) all Hazardous Materials licenses and permits held by or on behalf of Subtenant or any party claiming by, through or under with respect to the Premises, and (ii) all Hazardous Materials used, stored, handled, treated, generated, released or disposed of from the Premises, and shall be subject to the review and approval of Sublandlord's environmental consultant. In connection with the review and approval of the Surrender Plan, upon the request of Sublandlord, Subtenant shall deliver to Sublandlord or its consultant such additional non-proprietary information concerning Subtenant Laboratory Operations as Sublandlord shall reasonably request. On or before such surrender, Subtenant shall deliver to Sublandlord evidence that the

approved Surrender Plan shall have been satisfactorily completed and Sublandlord shall have the right, subject to reimbursement at Subtenant's expense as set forth below, to cause Sublandlord's environmental consultant to inspect the Premises and perform such additional procedures as may be deemed reasonably necessary to confirm that the Premises are, as of the effective date of such surrender or early termination of the Lease, in compliance with Sections 6 and 16. Subtenant shall reimburse Sublandlord, within thirty (30) days of demand as additional rent, for the reasonable out-of-pocket expense incurred by Sublandlord for Sublandlord's environmental consultant to review and approve the Surrender Plan and to visit the Premises and verify satisfactory completion of the same. Sublandlord shall have the unrestricted right to deliver such Surrender Plan and any report by Sublandlord's environmental consultant with respect to the surrender of the Premises to third parties with a legitimate business reason to receive the same.

34. <u>Master Lease</u>. (a) Sublandlord shall comply with all its obligations under the Master Lease and keep the Master Lease is full force and effect throughout the term of this Sublease. Sublandlord represents that attached hereto as Exhibit "A" is a true and correct copy of the Master Lease and that the Master Lease is in full force and effect on the date hereof.

Sublandlord shall not enter into any agreement with Landlord for the early termination of the Master Lease or the surrender of the property leased thereunder.

- (b) As a condition to the occurrence of the Sublease Commencement Date, Sublandlord shall obtain from the Landlord, (i) the written consent (the "Consent") of Landlord to the subletting of the Premises to Subtenant for the uses set forth herein and (ii) an agreement ("Recognition Agreement") substantially in the form attached hereto as "Exhibit K" and otherwise reasonably acceptable to Subtenant whereby Landlord agrees to recognize Subtenant as a tenant of the Property and this Sublease in the event of a termination of the Master Lease. Sublandlord shall submit a written request to Landlord for the Recognition Agreement together with the request for the Consent. In the event that Subtenant waives the delivery of the Recognition Agreement as a condition to the occurrence of the Sublease Commencement Date, Sublandlord shall use commercially reasonable and diligent efforts to obtain the Recognition Agreement following the Sublease Commencement Date.
- (c) If Subtenant waives Sublandlord's obligation to deliver the Recognition Agreement and the Master Lease is terminated for any reason, this Sublease, if not sooner terminated hereunder, will automatically terminate on the effective date of termination of the Master Lease, and Sublandlord will not be liable to Subtenant of any other person for loss, damage or expense resulting therefrom unless such termination was due to a default by Sublandlord under the Master Lease; provided, however, if the Master Lease gives Sublandlord any right to terminate the Master Lease in the event of the partial or total damage, destruction, or condemnation, then the exercise of such right by Sublandlord will not constitute a default or breach by Sublandlord under this Sublease. If such termination will be due solely to the fault of Subtenant, Sublandlord will be entitled to recover from Subtenant and Subtenant will pay, in addition to all other sums to which Sublandlord may be entitled, all damages, losses, costs and expenses (including reasonable attorneys' fees) suffered or incurred by Sublandlord as a result of such termination.
- 35. Waiver of One Breach Not Waiver of Others. Waiver of one breach of a term, condition, or covenant of this Sublease by either party to this Sublease shall be limited to the particular instance and shall not be construed as a waiver of past or future breaches of this Sublease or other terms, conditions, or covenants.
- 36. <u>Force Majeure</u>. In the event Sublandlord or Subtenant is delayed, hindered or prevented from performing any act or thing required hereunder by reason of strikes, lockouts, labor troubles, casualties, governmental laws or regulations, riots, insurrection, war, acts of God, or other causes beyond the reasonable control of Sublandlord or Subtenant, neither party shall be liable for the delay, and the period for the performance by either party shall be extended for a period equivalent to the period of such delay. The foregoing shall be inapplicable to the payment of Rent by Subtenant.
- 37. Notices. The parties can be notified by certified or registered mail or overnight delivery service with verification of delivery as follows:

Sublandlord: State Farm Mutual Automobile Insurance Company

One State Farm Plaza, C-4

Bloomington, IL 61704

Attn: Lease Administration

Subtenant: Molecular Templates, Inc.

Prior to the Subtenant's occupancy of the Premises:

9301 Amberglen Blvd., Suite 100 Austin, TX 78729 Attention: Jack Higgins

With a copy to:

Molecular Templates, Inc. Harborside 5 185 Hudson Street, Suite 1510 Jersey City, NJ 07311 Attention: General Counsel

Following Subtenant's occupancy of the Premises: To Subtenant

at the Premises Attention: Jack Higgins

With a copy to:

Molecular Templates, Inc. Harborside 5 185 Hudson Street, Suite 1510 Jersey City, NJ 07311 Attention: General Counsel

All notices shall be deemed delivered one (1) business day following deposit of the same with a recognized overnight courier service and three (3) business days after being deposited with the United States postal service, postage prepaid, if delivered by registered or certified mail

- 38. End of Term. Subtenant shall not remain in possession of the Premises upon the expiration of the Sublease Term.
- 39. Governing Law. This Sublease shall be governed by and construed in accordance with the laws of the State wherein the Premises, is located.
- 40. <u>No Joint Venture</u>. Nothing contained herein nor the acts of the parties shall be deemed or construed to create the relationship of principal and agent, partnership, joint venture, or similar relationship or arrangement, it being understood that the relationship between the parties is solely that of Sublandlord and Subtenant.

- 41. OFAC Certification/Anti-Money Laundering Laws. (a) Each party certifies that (i) it is not acting directly or indirectly for or on behalf of any person, group, entity, or nation named by any Executive Order or the United States Treasury Department, through its Office of Foreign Assets Control ("OFAC") or otherwise, as a terrorist, "Specially Designated Nation," "Blocked Person," or other banned or blocked person, entity, nation, or transaction pursuant to any law, order, rule or regulation that is enforced or administered by OFAC or another department of the United States government, and (ii) it is not engaged in this transaction (directly or indirectly) on behalf of, or instigating or facilitating this transaction (directly or indirectly) on behalf of, any such person, group, entity or nation. Sublandlord and Subtenant each shall indemnify, defend, and hold harmless the other party from and against any claims, damages, losses, risks, liabilities, and expenses (including reasonable attorneys' fees and costs) arising from or related to any breach of the foregoing certification.
  - (b) Subtenant shall from time to time, upon not less than twenty (20) business days' prior written request by Sublandlord, provide such information as is necessary or appropriate to comply with the anti-money laundering laws of any applicable jurisdiction, or to respond to requests for information concerning the identity of Subtenant, any person controlling or controlled by subtenant, or any person having a beneficial interest (either directly or indirectly) in Subtenant, from any governmental authority, self-regulatory organization or financial institution in connection with Sublandlord.
- 42. <u>Broker.</u>Sublandlord warrants and represents that Core Group ("Broker") is the sole exclusive agent representing the Subtenant in the negotiation of this sublease. Sublandlord will pay a market commission equal to four percent (4%) of the gross value of the sublease per a separate agreement. Sublandlord hereby indemnifies and holds Subtenant harmless with respect to the commission due Broker or any claim for a commission payable with respect to this Sublease made by any other third party.
- 43. <u>Headings</u>. The titles and headings of this Sublease are for convenience of reference only and shall not in any way be deemed a part of this Sublease for the purpose of construing or interpreting the meaning thereof, or for any other purpose.
- 44. <u>Counterparts</u>. This Sublease may be executed in counterparts each of which shall be deemed an original and all of which together shall constitute one instrument. The parties intend that electronic signatures constitute original signatures and a ".pdf" file of this sublease containing the signatures (original or electronic) of all parties is binding on the parties.
- 45. Entire Agreement. This Sublease contains the entire agreement and understanding between Sublandlord and Subtenant relating to the subleasing of the Premises and obligations of Sublandlord and Subtenant. This Sublease supersedes any and all prior or contemporaneous agreements and understandings between Sublandlord and Subtenant, and shall not be modified or amended unless both Sublandlord and Subtenant agree in writing. Sublandlord and Subtenant specifically agree that this instrument be interpreted as a sublease rather than an assignment.

IN WITNESS WHEREOF, the parties have executed this Sublease as of the day and year first above written.

SUBLANDLORD: State Farm Mutual Automobile Insurance Company

BY:
TITLE:

Michael Buelow

Assistant Vice President DATE: 1/23/2019

SUBTEANT: MOLECULAR TEMPLATES, INC. BY: <u>|s/</u>

Jason Kim

TITLE: President & COO

DATE: <u>1/11/2019</u>

BY: <u>/s/ Adam Cutler</u>

TITLE: Chief Financial Officer

DATE: 1/11/2019

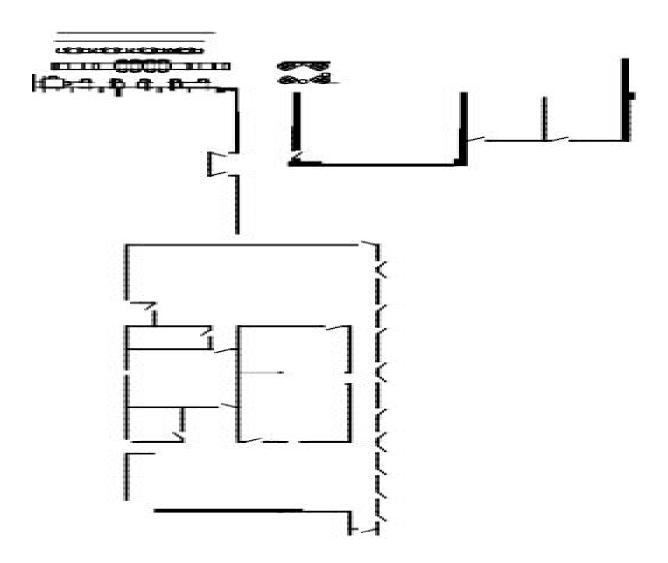
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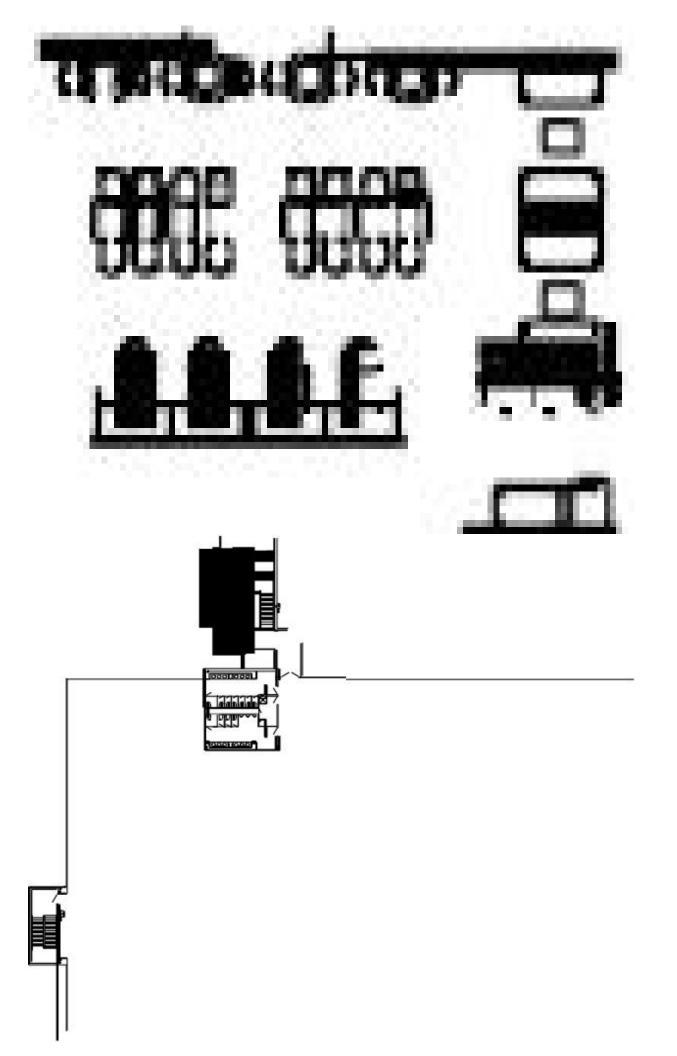
### EXHIBIT A

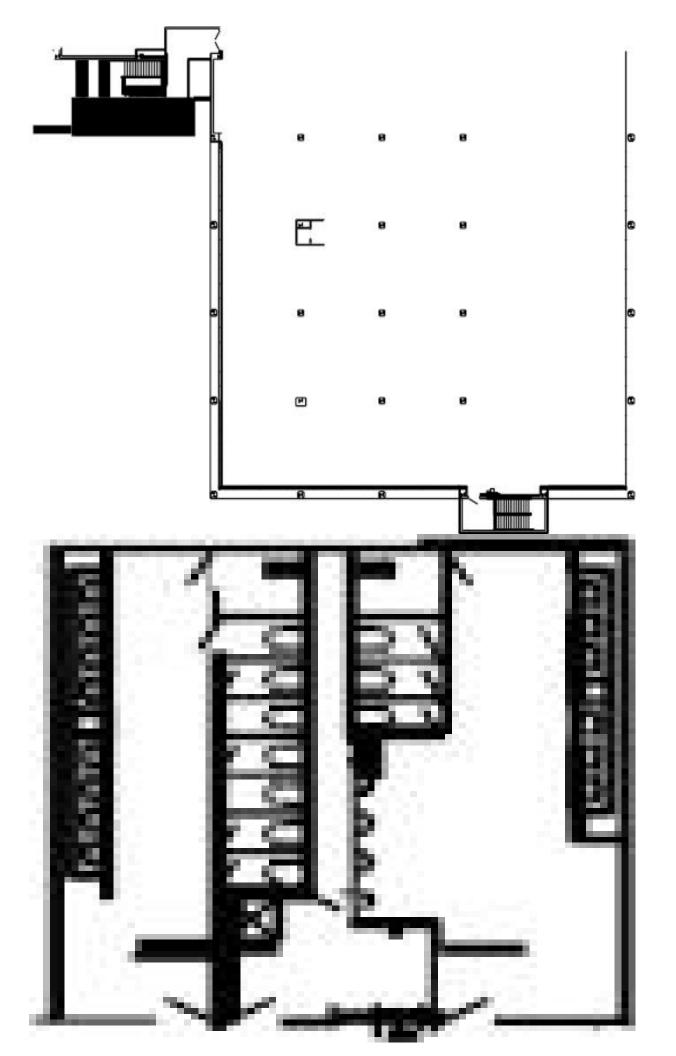
# [COPY OF MASTER LEASE Omitted pursuant to Regulation S-K, Item 601(a)(5)]

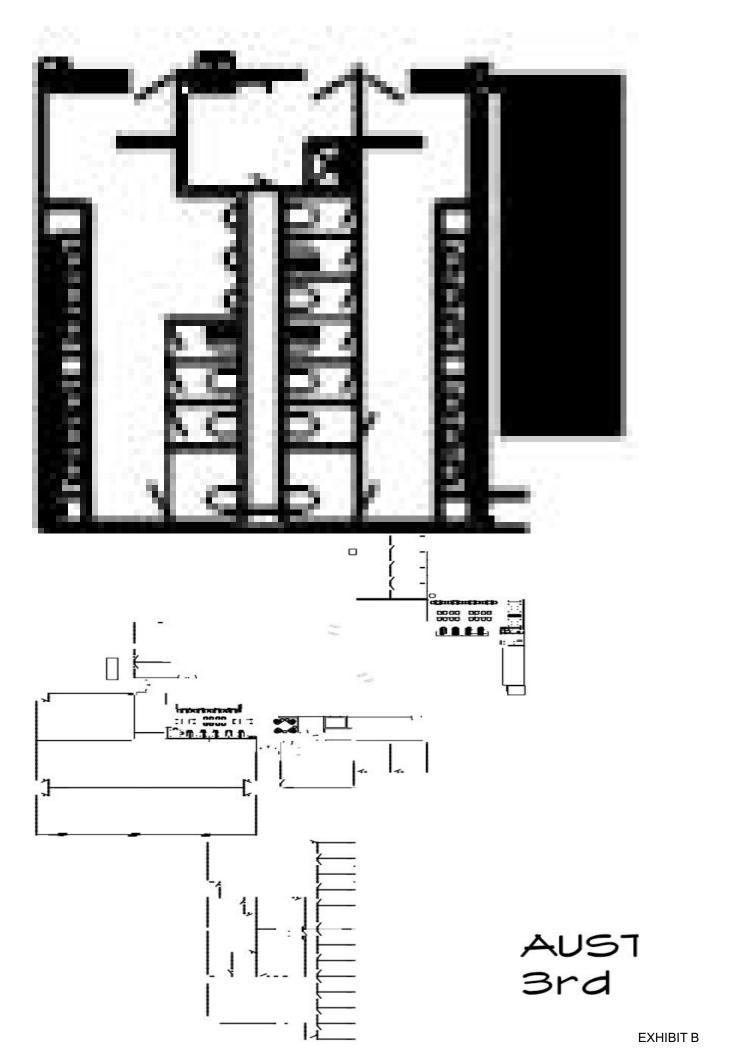
# EXHIBIT B [FLOOR PLAN]

See Attached









## EXHIBIT C

[LIST OF FF&E TO BE DELIVERED WITH THE PREMISES]

### EXHIBIT C FF&E

Furniture and Fixtures which currently reside in and that Molecular Templates requests to remain within the Leased Premises:

- 1. All Moveable Office wall partitions which currently create the Cubicles shown below (note, the ones to be removed have been covered (blue), this will retain three of the cubicles rows).
- 2. (6) Add Cubicles in the open area that was previously SF Legal support (upper left in drawing below)
- 3. (53) Modesty Tables
- 4. All Conference Tables and credenzas that are currently in conference rooms and add conference table(s) and credenza to large conference room by main entryway (akin to how it has been set
  - i. up in the past)
- 5. (10) Teak Top Conference Tables
- 6. (113) Leap Chairs (93 in office area, 22 in lab area)
- 7. (50) Side Chairs
- 8. (96) Conference Room Chairs
- 9. (23) P Shape or U Shape Desks
- 10. (52) Office Trash Cans
- 11. (72) Cubicle Trash Cans
- 12. (30) 2-3 Draw file cabinets (22 for lab area and 8 for office area modesty table desk setups)
- 13. (68) 2-3 Draw file cabinets for cubicles (48 for center area desk configured cubicles, 20 for cubicles in SF Legal office area)
- 14. (28) Book case or book shelves for offices
- 15. (16) 4-5 Draw Vertical File Cabinet (8 in office area, 8 in legal area)
- 16. (6) Tall storage cabinets

# EXHIBIT D [DEMISING WORK ESTIMATE]

## STATE FARM INSURANCE DEMISING WALL SPECIFICATIONS

- > All equipment and finishes to be new; any existing equipment and finishes to be reused must be in like- new working condition.
- ➤ Below are typical State Farm Design Guidelines. State Farm will need to approve final finish selections.
- > New work shall meet or exceed all national, state, and local codes.

#### **GENERAL**

- 1. Demising walls: Walls between tenants to be floor to deck per code compliance and minimal 1 hour rated walls; typical drywall thickness 5/8" or ½" min., with Sound Batt Insulation floor to deck.
- 2. Interior Wall Finish: All walls (including existing walls) to be finished to match adjacent surfaces.
- 3. Interior Doors: Size to be a minimum of 3' x 7' x 1-3/8" wood solid core installed in steel jambs with keyed Lockset or Latchsets and door stop; keying to be specified by State Farm. All doors within area of the demising wall must be new.
- 4. Door Hardware: Hardware is typically provided by Contractor in compliance with building standards.
  - i. Security Hardware, and general Hardware, hinge finish, door stop, closer, etc. to match; to be reviewed for security type to be specified by State Farm.
- 5. Ceiling: 2' x 2' lay-in grid system; beveled edge tile; NRC of .90 for fiberglass; NRC of .75 for mineral tiles
- 6. Signage: At suite entry, elevator, building lobby as needed.
- 7. Exit Signs/Emergency Lighting/ Fire Sprinklers/Smoke Detectors, adjusted as required per code.
- 8. Demising Partitions: Must be built from floor to deck, per code.
- 9. Access and Security System: Rough-in (same as "Empty Conduit") for electric strikes, key readers, key pads, door contacts, intercom, key switch, panic button, etc.; include door closer and stockroom function lockset; prep door frame and provide VonDuprin 5100 electric strike
  - ii. (fail "secure"); make final rigid electrical connection (dedicated circuit) to system equipment; design and systems provided and installed by State Farm.
- 10. Mechanical: All full-height walls to deck shall have a transfer air duct installed to provide a path for return air back to the AHU as required depending on location. "Z" type configuration is preferred.
- 11. Life Safety: New exit signs installed at doors in demising wall as required by state and local code requirements. Fire Alarm strobes / horns adjusted at demising partitions as required by state and iii.local code.
- 12. Lighting: Switching to be adjusted as required depending on affected lights around Demising partitions.
- 13. Fire Sprinklers (if required): Adjust as needed; to be centered in ceiling tile.

#### INTERIOR FINISHES GENERAL GUIDELINES:

1. All interior finish selections to be reviewed and approved by State Farm Corporate Interior Design

### 2. Flooring, Carpet:

 Location: As required for replacement where demising wall is constructed. Product to match existing adjacent carpet tile in type, color, and pattern. State Farm to approve selection.

### 3. Rubber Cove Base:

- Color to match existing adjacent cove base
- Manufacturers:

Johnsonite Traditional 4", Mannington Premium Edge 4", Roppe Pinnacle 4"

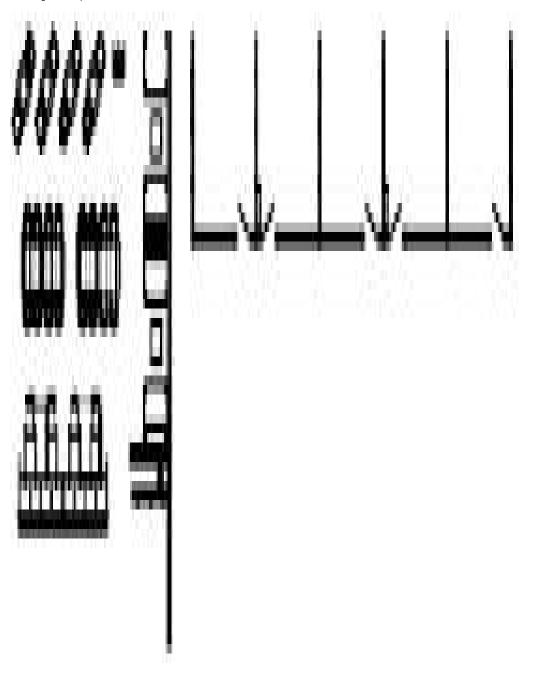
### 4. Paint:

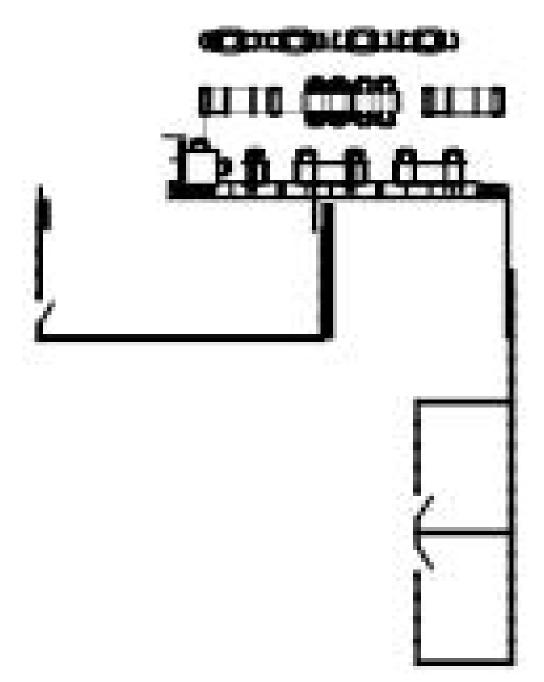
- Walls to receive primer and two coats of low VOC eggshell finish
- Colors: To match existing adjacent wall surfaces. State Farm to approve selection.
- o Interior door frames (if applicable) Low VOC Satin finish
- Manufacturers:
  - Sherwin Williams, Benjamin Moore, PPG

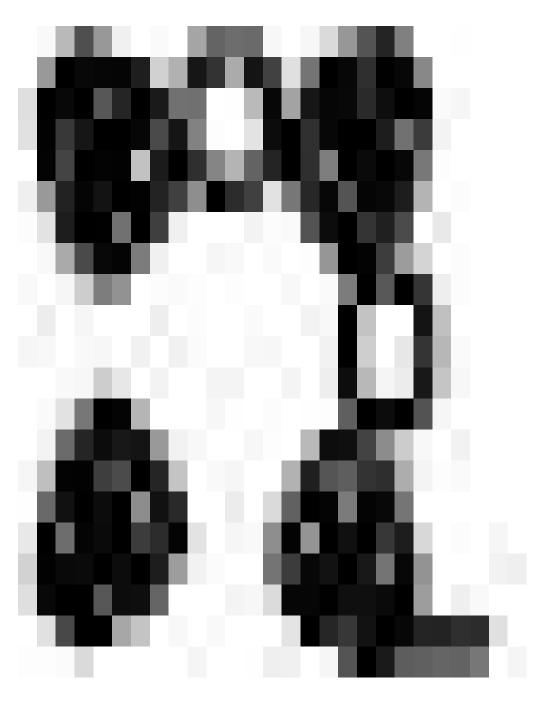
## **EXHIBIT**

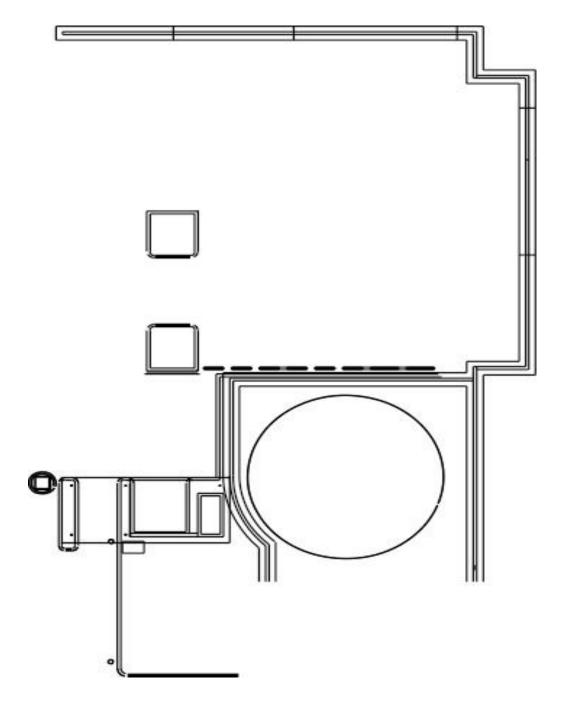
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## [SITE PLAN IDENTIFYING LOCATION FOR GENERATOR] See attached









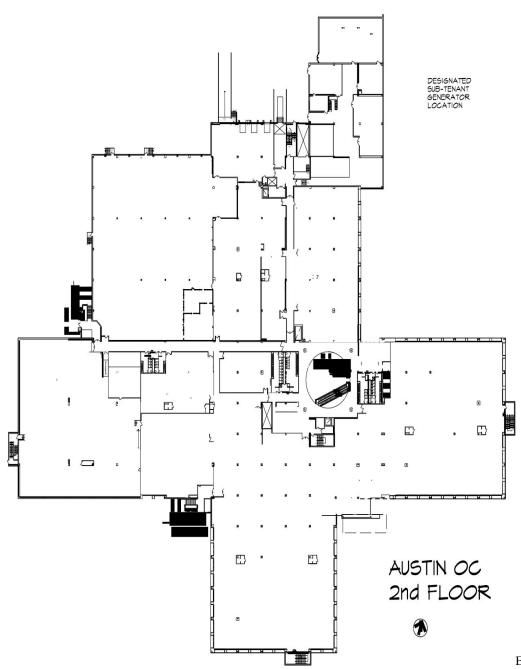


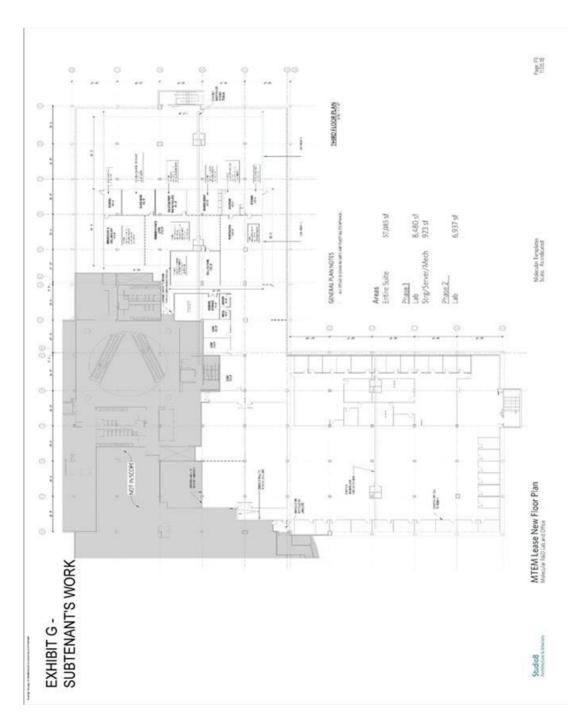
EXHIBIT E - GENERATOR LOCATION





## EXHIBIT F INTENTIONALLY OMITTED

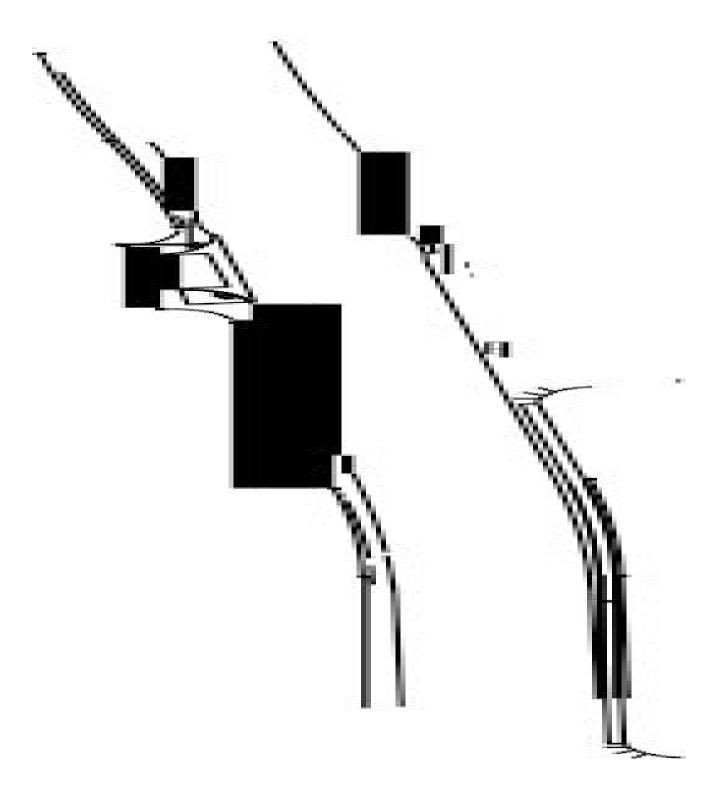
## EXHIBIT G [SUBTENANT'S WORK]

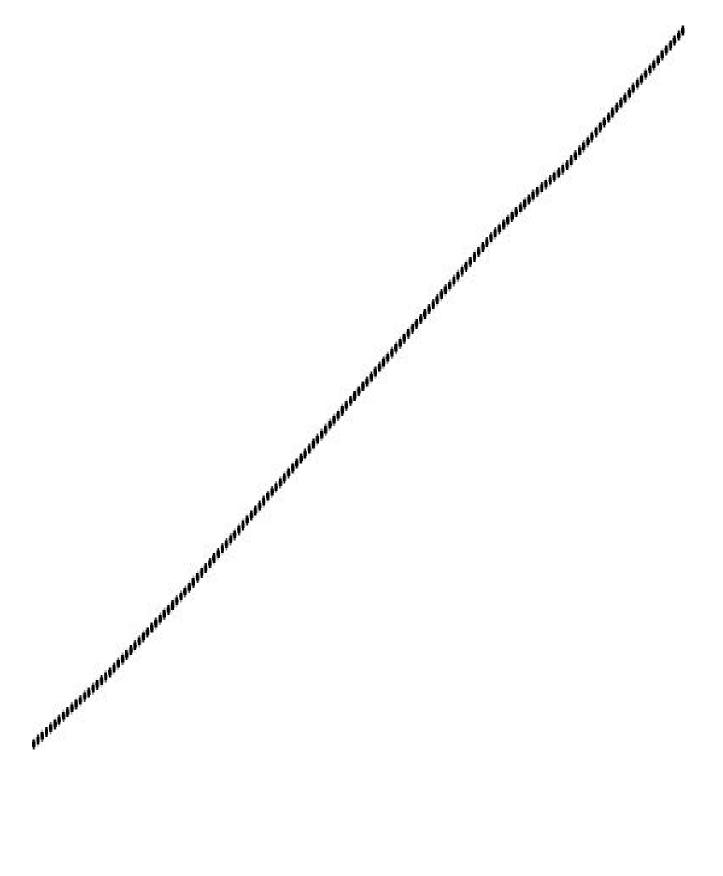


### EXHIBIT H

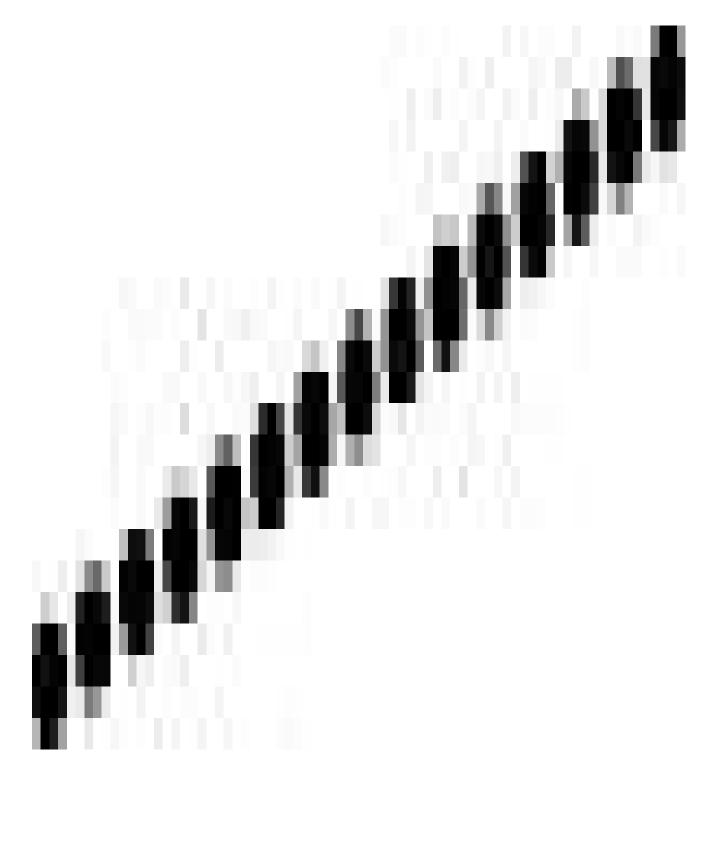
## [PLAN IDENTIFYING LOCATION OF RESERVED PARKING SPACES]

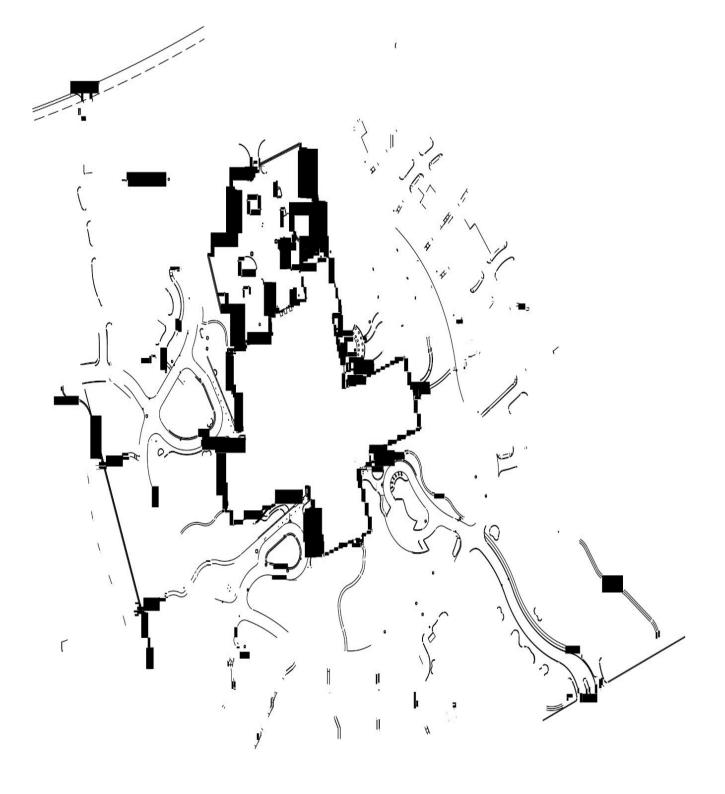
See Attached

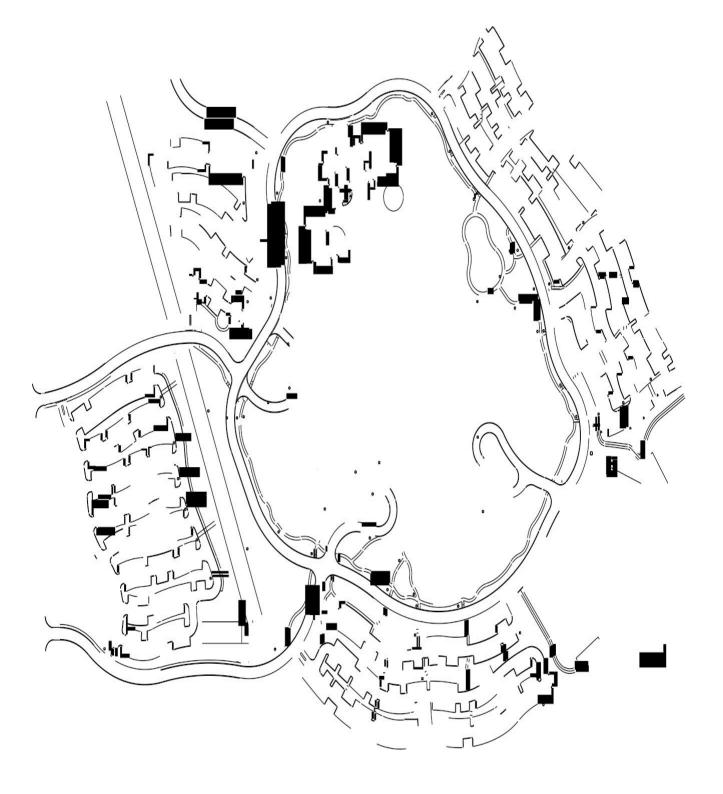


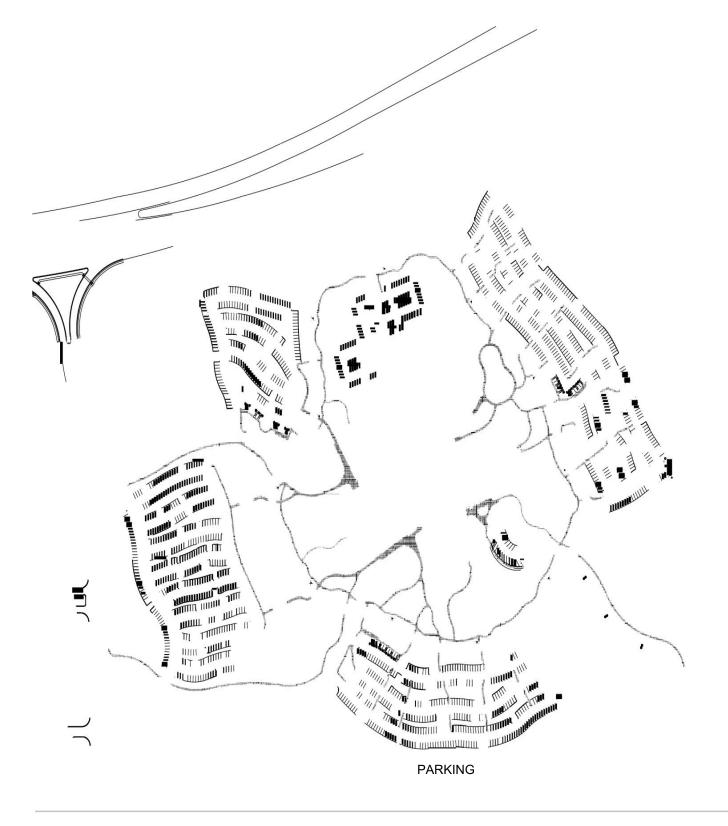


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**EXHIBIT** 

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[PLAN IDENTIFYING MONUMENT SIGN]



# EXHIBIT I PLAN IDENTIFYING MONUMENT SIGN

## EXHIBIT J [Temporary Space Floor Plan]

## TEMPORARY SPACE FLOOR PLAN



## EXHIBIT K

[FORM OF RECOGNITION AGREEMENT Omitted pursuant to Regulation S-K, Item 601(a) (5)

#### **CERTIFICATIONS UNDER SECTION 302**

### I, Eric E. Poma, Ph.D., certify that:

- 1. I have reviewed this quarterly report on Form 10-Q of Molecular Templates, 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(s) 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)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) 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) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
- c) 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
- d) 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(s) 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: May 13, 2019

/s/ Eric E. Poma, Ph.D.

Eric E. Poma, Ph.D. Chief Executive Officer (principal executive officer)

#### **CERTIFICATIONS UNDER SECTION 302**

### I, Adam Cutler, certify that:

- 1. I have reviewed this quarterly report on Form 10-Q of Molecular Templates, 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(s) 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)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) 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) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
- c) 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
- d) 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(s) 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: May 13, 2019

/s/ Adam Cutler

Adam Cutler Chief Financial Officer (principal financial officer and principal accounting officer)

### **CERTIFICATIONS UNDER SECTION 906**

Pursuant to section 906 of the Sarbanes-Oxley Act of 2002 (subsections (a) and (b) of section 1350, chapter 63 of title 18, United States Code), each of the undersigned officers of Molecular Templates, Inc., a Delaware corporation (the "Company"), does hereby certify, to such officer's knowledge, that:

The Quarterly Report for the quarter ended March 31, 2019 (the "Form 10-Q") of the Company fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended, and the information contained in the Form 10-Q fairly presents, in all material respects, the financial condition and results of operations of the Company.

Dated: May 13, 2019 /s/Eric E. Poma, Ph.D.

Eric E. Poma, Ph.D. Chief Executive Officer (principal executive officer)

Dated: May 13, 2019 /s/ Adam Cutler

Adam Cutler

Chief Financial Officer

(principal financial officer and principal accounting officer)

A signed original of this written statement required by Section 906 has been provided to the Company and will be retained by the Company and furnished to the Securities and Exchange Commission or its staff upon request.