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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, DC 20549  
FORM 10-Q**

(Mark One)

- QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934**

For the quarterly period ended March 31, 2019

OR

- TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934**

For the transition period from \_\_\_\_\_ to \_\_\_\_\_

Commission File Number: 001-38670

**Entasis Therapeutics Holdings Inc.**

(Exact Name of Registrant as Specified in its Charter)

**Delaware**

(State or other jurisdiction of  
incorporation or organization)

**82-4592913**

(I.R.S. Employer  
Identification No.)

**35 Gatehouse Drive  
Waltham, MA 02451  
(781) 810-0120**

(Address, including zip code, and telephone number, including area code, of registrant's principal executive offices)

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

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

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

Large accelerated filer  Accelerated filer

Non-accelerated filer  Smaller reporting company

Emerging growth company

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

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

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

Title of each class:	Trading Symbol(s)	Name of each exchange on which registered
Common Stock, \$0.001 par value	ETTX	The Nasdaq Stock Market, LLC

As of May 9, 2019, the registrant had 13,132,004 shares of common stock, \$0.001 par value per share, outstanding.

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ENTASIS THERAPEUTICS HOLDINGS INC.  
QUARTERLY REPORT ON FORM 10-Q

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### **SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS**

This Quarterly Report on Form 10-Q contains forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, or Securities Act, and Section 21E of the Securities Exchange Act of 1934, as amended, or Exchange Act. All statements other than statements of historical fact are “forward-looking statements” for purposes of this Quarterly Report on Form 10-Q. In some cases, you can identify forward-looking statements by terminology such as “anticipate,” “believe,” “could,” “estimate,” “expects,” “intend,” “may,” “plan,” “potential,” “predict,” “project,” “should,” “will,” “would” or the negative or plural of those terms, and similar expressions.

Forward-looking statements include, but are not limited to, statements about:

- our plans to develop and commercialize our product candidates;
- our planned clinical trials for our product candidates;
- the timing of the availability of data from our clinical trials;
- the timing of our selection of an initial clinical candidate from our NBP program;
- our expectation that the efficacy and safety data from our planned and ongoing Phase 3 trials, if positive, will be sufficient to support submission of an NDA to the FDA;
- our ability to obtain grants or other government funding to develop our product candidates;
- our ability to take advantage of benefits offered by current and pending legislation related to the development of products addressing antimicrobial resistance;
- the timing of our planned regulatory filings;
- the timing of and our ability to obtain and maintain regulatory approvals for our product candidates;
- the clinical utility of our product candidates and their potential advantages compared to other treatments;
- our commercialization, marketing and distribution capabilities and strategy;
- our ability to establish and maintain arrangements for the manufacture of our product candidates;
- our ability to establish and maintain collaborations and to recognize the potential benefits of such collaborations;
- our estimates regarding the market opportunities for our product candidates;
- our intellectual property position and the duration of our patent rights; and
- our estimates regarding future expenses, capital requirements and needs for additional financing.

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Factors that may cause actual results to differ materially from current expectations include, among other things, those set forth in Part I, Item 1A, “Risk Factors,” in our most recent Annual Report on Form 10-K. Any forward-looking statement in this Quarterly Report on Form 10-Q reflects our current view with respect to future events and is subject to these and other risks, uncertainties and assumptions relating to our operations, results of operations, industry and future growth. Given these uncertainties, you should not rely on these forward-looking statements as predictions of future events. Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee future results, levels of activity, performance or achievements. 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.

In this Quarterly Report on Form 10-Q, unless otherwise stated or as the context otherwise requires, references to “Entasis,” “the Company,” “we,” “us,” “our” and similar references refer to Entasis Therapeutics Holdings Inc. and its wholly owned subsidiaries. This Quarterly Report on Form 10-Q also contains references to our trademarks and to trademarks belonging to other entities. Solely for convenience, trademarks and trade names referred to, including logos, artwork and other visual displays, may appear without the ® or symbols, but such references are not intended to indicate, in any way, that their respective owners will not assert, to the fullest extent under applicable law, their rights thereto. We do not intend our use or display of other companies’ trade names or trademarks to imply a relationship with, or endorsement or sponsorship of us by, any other companies.

**PART I. FINANCIAL INFORMATION****Item 1. Consolidated Financial Statements****ENTASIS THERAPEUTICS HOLDINGS INC.  
CONSOLIDATED BALANCE SHEETS  
UNAUDITED****(in thousands, except share and per-share data)**

	<b>March 31, 2019</b>	<b>December 31, 2018</b>
<b>Assets</b>		
Current assets:		
Cash and cash equivalents	\$ 13,535	\$ 49,360
Short-term investments	61,020	35,732
Grants receivable	1,728	1,706
Prepaid expenses and other current assets	2,593	1,994
Total current assets	<u>78,876</u>	<u>88,792</u>
Property and equipment, net	379	419
Operating lease right-of-use assets	1,949	—
Other assets	63	63
Total assets	<u>\$ 81,267</u>	<u>\$ 89,274</u>
<b>Liabilities and Stockholders' Equity</b>		
Current liabilities:		
Accounts payable	\$ 4,080	\$ 1,370
Accrued expenses and other current liabilities	4,896	4,846
Total current liabilities	8,976	6,216
Operating lease liabilities, net of current portion	1,717	—
Deferred rent	—	175
Total liabilities	<u>10,693</u>	<u>6,391</u>
Commitments (Notes 5 and 11)		
Stockholders' equity:		
Common stock, par value \$0.001; 125,000,000 shares authorized and 13,127,128 and 13,124,842 shares issued and outstanding as of March 31, 2019 and December 31, 2018, respectively	13	13
Additional paid-in capital	173,577	172,988
Accumulated other comprehensive income (loss)	34	(9)
Accumulated deficit	(103,050)	(90,109)
Total stockholders' equity	<u>70,574</u>	<u>82,883</u>
Total liabilities and stockholders' equity	<u>\$ 81,267</u>	<u>\$ 89,274</u>

See accompanying notes to these unaudited consolidated financial statements.

**ENTASIS THERAPEUTICS HOLDINGS INC.**  
**CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE LOSS**  
**UNAUDITED**  
**(in thousands, except share and per share data)**

	<b>Three Months Ended March 31,</b>	
	<b>2019</b>	<b>2018</b>
Operating expenses:		
Research and development	\$ 11,002	\$ 8,550
General and administrative	3,189	3,218
Total operating expenses	14,191	11,768
Loss from operations	(14,191)	(11,768)
Other income:		
Grant income	829	1,089
Interest income	492	12
Total other income	1,321	1,101
Loss before income taxes	(12,870)	(10,667)
Provision for income taxes	71	—
Net loss	\$ (12,941)	\$ (10,667)
Net loss per share—basic and diluted	\$ (0.99)	\$ (844.01)
Weighted average common stock outstanding—basic and diluted	13,126,595	12,639

	<b>Three Months Ended March 31,</b>	
	<b>2019</b>	<b>2018</b>
Other comprehensive loss		
Net loss	\$ (12,941)	\$ (10,667)
Net unrealized gain on investments held	43	—
Foreign currency translation adjustments	—	(44)
Comprehensive loss	\$ (12,898)	\$ (10,711)

See accompanying notes to these unaudited consolidated financial statements.

**ENTASIS THERAPEUTICS HOLDINGS INC.**  
**CONSOLIDATED STATEMENTS OF REDEEMABLE CONVERTIBLE PREFERRED STOCK AND STOCKHOLDERS' EQUITY**  
**(DEFICIT)**  
**UNAUDITED**  
**(in thousands, except share data)**

	Common Stock		Additional Paid-in Capital	Accumulated Other Comprehensive Income (Loss)	Accumulated Deficit	Total Stockholders' Equity
	Shares	Amount				
<b>Balances as of December 31, 2018</b>	13,124,842	\$ 13	\$ 172,988	\$ (9)	\$ (90,109)	\$ 82,883
Stock-based compensation expense	—	—	578	—	—	578
Exercise of stock options	2,286	—	11	—	—	11
Unrealized gain on investments held	—	—	—	43	—	43
Net loss	—	—	—	—	(12,941)	(12,941)
<b>Balances as of March 31, 2019</b>	<b>13,127,128</b>	<b>\$ 13</b>	<b>\$ 173,577</b>	<b>\$ 34</b>	<b>\$ (103,050)</b>	<b>\$ 70,574</b>

Three Months Ended March 31, 2018	Redeemable Convertible Preferred Stock								Common Stock	Additional Paid-in Capital	Accumulated Other Comprehensive Income (Loss)	Accumulated Deficit	Total Stockholders' Equity (Deficit)	
	A		B		B-1 A		B-1 B							
	Shares	Amount	Shares	Amount	Shares	Amount	Shares	Amount						
	Shares	Amount	Shares	Amount	Shares	Amount	Shares	Amount						
<b>Balances as of December 31, 2017</b>	33,499,900	\$ 23,866	25,000,000	\$ 24,550	42,372,882	\$ 24,423	54,067,796	\$ 31,874	12,639	\$ 3	\$ 1,377	\$ —	\$ (57,170)	\$ (55,790)
ASU 2018-07 modified retrospective adjustment	—	—	—	—	—	—	—	—	—	—	(13)	—	13	—
Stock-based compensation expense	—	—	—	—	—	—	—	—	—	—	200	—	—	200
Unrealized loss on foreign currency translation	—	—	—	—	—	—	—	—	—	—	—	(44)	—	(44)
Net loss	—	—	—	—	—	—	—	—	—	—	—	—	(10,667)	(10,667)
<b>Balances as of March 31, 2018</b>	<b>33,499,900</b>	<b>\$ 23,866</b>	<b>25,000,000</b>	<b>\$ 24,550</b>	<b>42,372,882</b>	<b>\$ 24,423</b>	<b>54,067,796</b>	<b>\$ 31,874</b>	<b>12,639</b>	<b>\$ 3</b>	<b>\$ 1,564</b>	<b>\$ (44)</b>	<b>\$ (67,824)</b>	<b>\$ (66,301)</b>

See accompanying notes to these unaudited consolidated financial statements.

**ENTASIS THERAPEUTICS HOLDINGS INC.**  
**CONSOLIDATED STATEMENTS OF CASH FLOWS**  
**UNAUDITED**  
**(in thousands)**

	Three Months Ended	
	March 31,	
	2019	2018
<b>Cash flows from operating activities:</b>		
Net loss	\$ (12,941)	\$ (10,667)
Adjustments to reconcile net loss to net cash used in operating activities:		
Depreciation and amortization expense	40	56
Stock-based compensation expense	578	200
Amortization and accretion of investments	(195)	—
Changes in operating assets and liabilities:		
Grants receivable	(22)	(722)
Prepaid expenses and other assets	(2,548)	(318)
Accounts payable	2,747	596
Accrued expenses and other current liabilities	1,917	(2,278)
Deferred rent	(175)	41
Net cash used in operating activities	<u>(10,599)</u>	<u>(13,092)</u>
<b>Cash flows from investing activities:</b>		
Purchases of property and equipment	(37)	(137)
Purchases of short-term investments	(25,050)	—
Net cash used in investing activities	<u>(25,087)</u>	<u>(137)</u>
<b>Cash flows from financing activities:</b>		
Proceeds from exercise of stock options	11	—
Payments of initial public offering costs	(150)	(1,706)
Net cash used in financing activities	<u>(139)</u>	<u>(1,706)</u>
Effect of exchange rate changes on cash and cash equivalents	—	(44)
<b>Net decrease in cash and cash equivalents</b>	<b>(35,825)</b>	<b>(14,979)</b>
Cash and cash equivalents at beginning of the period	49,360	55,101
Cash and cash equivalents at end of the period	<u>\$ 13,535</u>	<u>\$ 40,122</u>
<b>Supplemental disclosure of non-cash investing and financing activities:</b>		
Purchases of property and equipment included in accounts payable	\$ —	\$ 110
Deferred offering costs included in accounts payable and accrued expenses	\$ —	\$ 413

See accompanying notes to these unaudited consolidated financial statements.

**ENTASIS THERAPEUTICS HOLDINGS INC.  
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS  
UNAUDITED**

**1. Organization and Description of Business**

Entasis Therapeutics Holdings Inc. (“Entasis” or the “Company”) is a clinical-stage biopharmaceutical company focused on the discovery, development and commercialization of novel antibacterial products to treat serious infections caused by multidrug-resistant Gram-negative bacteria. The Company has three subsidiaries: Entasis Therapeutics Limited; Entasis Therapeutics Inc.; and Entasis Therapeutics Security Corporation.

The Company was initially formed as Entasis Therapeutics Limited (“Entasis Limited”) on March 6, 2015 in the United Kingdom (“U.K.”) as a wholly owned subsidiary of AstraZeneca AB (“AstraZeneca”). In connection with the spin-out of Entasis Limited from AstraZeneca in May 2015, Entasis Limited issued 4 ordinary shares to AstraZeneca. Additionally, pursuant to a business transfer and subscription agreement with AstraZeneca (the “A Subscription Agreement”), Entasis Limited also issued 33,499,900 shares of A redeemable convertible preference shares (“A Preferred Stock”) to AstraZeneca in May 2015. In March 2016, Entasis Limited issued 25,000,000 shares of B redeemable convertible preference shares (“B Preferred Stock”) to third-party investors, at which point AstraZeneca no longer held a controlling interest in Entasis Limited.

On April 23, 2018, Entasis Limited completed a corporate reorganization (the “Reorganization”). As part of the Reorganization, Entasis Limited formed Entasis Therapeutics Holdings Inc., a Delaware corporation, in March 2018 with nominal assets and liabilities for the purpose of consummating the Reorganization. In connection with the Reorganization, the existing shareholders of Entasis Limited exchanged each of their classes of shares of Entasis Limited for the same number and classes of common stock and preferred stock of Entasis Therapeutics Holdings Inc. on a one-to-one basis. The newly issued stock of Entasis Therapeutics Holdings Inc. have substantially identical rights to the exchanged shares of Entasis Limited. As a result of the exchange, Entasis Therapeutics Holdings Inc. became the sole shareholder of Entasis Limited. Upon the completion of the Reorganization on April 23, 2018, the historical consolidated financial statements of Entasis Limited became the historical consolidated financial statements of Entasis Therapeutics Holdings Inc.

On September 28, 2018, the Company completed an initial public offering of its common stock, in which the Company issued and sold 5,000,000 shares of common stock at a price to the public of \$15.00 per share. The aggregate net proceeds to the Company from the initial public offering were approximately \$65.6 million after deducting underwriting discounts and commissions and offering expenses payable by the Company. Upon the completion of the Company’s initial public offering, all of the outstanding shares of redeemable convertible preferred stock of the Company, including accrued dividends, automatically converted into 8,084,414 shares of the Company’s common stock.

***Risks and Uncertainties***

As of March 31, 2019, the Company had \$74.6 million in cash, cash equivalents and short-term investments and an accumulated deficit of \$103.1 million. Since its inception through March 31, 2019, the Company has funded its operations primarily with proceeds from the sale of redeemable convertible preferred stock and the sale of its common stock. The Company has also either directly received funding or financial commitments from, or has had its program activities conducted and funded by, United States (“U.S.”) government agencies and non-profit entities. In the absence of positive cash flows from operations, the Company is highly dependent on its ability to find additional sources of funding in the form of debt or equity financing. The Company believes its existing cash, cash equivalents and short-term investments will enable it to fund its operating expenses and capital requirements into the fourth quarter of 2020.

As an early-stage company, the Company is subject to a number of risks common to other life science companies, including, but not limited to, raising additional capital, development by its competitors of new technological innovations, risk of failure in preclinical and clinical studies, safety and efficacy of its product candidates in clinical trials, the risk of relying on external parties such as contract research organizations (“CROs”) and contract manufacturing organizations (“CMOs”), the regulatory approval process, market acceptance of the Company’s products

**ENTASIS THERAPEUTICS HOLDINGS INC.**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**UNAUDITED**

once approved, lack of marketing and sales history, dependence on key personnel and protection of proprietary technology. The Company's therapeutic programs are currently pre-commercial, spanning discovery through late development and will require significant additional research and development efforts, including extensive preclinical and clinical testing and regulatory approval, prior to commercialization of any product candidates. These efforts require significant amounts of additional capital, adequate personnel, infrastructure, and extensive compliance-reporting capabilities. There can be no assurance that the Company's research and development will be successfully completed, that adequate protection for the Company's intellectual property will be obtained, that any products developed will obtain necessary regulatory approval or that any approved products will be commercially viable. Even if the Company's product development efforts are successful, it is uncertain when, if ever, the Company will generate revenue from product sales. The Company may never achieve profitability, and unless and until it does, it will continue to need to raise additional capital or obtain financing from other sources, such as strategic collaborations or partnerships.

**2. Summary of Significant Accounting Policies**

***Significant Accounting Policies***

The Company's significant accounting policies are disclosed in the audited consolidated financial statements for the year ended December 31, 2018 and the notes thereto, which are included in the Company's most recent Annual Report on Form 10-K. Since the date of those consolidated financial statements, there have been no material changes to its significant accounting policies, with the exception of significant accounting policies related to the adoption of FASB ASC Topic 842, *Leases*, effective January 1, 2019, as described below.

***Basis of Presentation and Consolidation***

The accompanying consolidated financial statements are unaudited and have been prepared in accordance with accounting principles generally accepted in the United States ("U.S. GAAP") and pursuant to the instructions to Form 10-Q and Article 10 of Regulation S-X. The December 31, 2018 consolidated balance sheet was derived from audited consolidated financial statements. These interim consolidated financial statements should be read in conjunction with the audited consolidated financial statements, which are contained in the Company's Annual Report on Form 10-K for the year ended December 31, 2018, filed with the Securities and Exchange Commission ("SEC") on March 29, 2019. The interim consolidated financial statements have been prepared on the same basis as the annual audited consolidated financial statements and, in the opinion of management, reflect all normal and recurring adjustments necessary for a fair statement of the Company's financial position and results of operations.

The accompanying consolidated financial statements include the Company's accounts and those of the Company's wholly-owned subsidiaries. All intercompany balances and transactions have been eliminated in consolidation. The results for the three months ended March 31, 2019 are not necessarily indicative of the results to be expected for the year ending December 31, 2019, any other interim periods, or any future year or period.

***Use of Estimates***

The preparation of the Company's consolidated financial statements in conformity with U.S. GAAP requires management to make estimates, judgments and assumptions that affect the reported amounts of assets and liabilities, the disclosure of contingent assets and liabilities at the date of the consolidated financial statements and the reported amounts of revenue and expenses during the reporting period. Significant estimates and assumptions reflected in these consolidated financial statements include, but are not limited to, the recognition of revenue, the recognition of research and development expenses and the valuation of common stock used in the determination of stock-based compensation expense. Estimates are periodically reviewed in light of changes in circumstances, facts and experience. Changes in estimates are recorded in the period in which they become known. Actual results could differ from the Company's estimates.

**ENTASIS THERAPEUTICS HOLDINGS INC.**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**UNAUDITED**

***Recently Adopted Accounting Pronouncements***

Effective January 1, 2019, the Company adopted the requirements under the Financial Accounting Standards Board (“FASB”), Accounting Standards Codification (“ASC”) 842, *Leases* (“ASC 842”) using the cumulative effect adjustment transition option. Comparative periods have not been restated. This standard requires entities that lease assets to recognize the assets and liabilities for the rights and obligations created by those leases on the balance sheet. The Company elected the available package of practical expedients which allows it to not reassess previous accounting conclusions around whether arrangements are or contain leases, the classification of its leases, and the treatment of initial direct costs. The Company has made an accounting policy election to keep leases with an initial term of 12 months or less off of the balance sheet. ASC 842 was issued in order to increase transparency and comparability of financial reporting related to leasing arrangements. The main difference between previous U.S. GAAP (“ASC 840”) and ASC 842 is the recognition of right-of-use lease assets and lease liabilities by lessees for those leases that were classified as operating leases under ASC 840. At January 1, 2019, the Company recorded right-of-use assets of \$2.1 million and operating lease liabilities of \$2.2 million. Adoption of the standard did not have a material impact on the consolidated statements of operations. For additional information regarding how the Company is accounting for leases under ASC 842, refer to Note 5, Leases.

***Recently Issued Accounting Pronouncements***

In August 2018, the FASB issued ASU 2018-13, *Fair Value Measurement (Topic 820): Disclosure Framework—Changes to the Disclosure Requirements for Fair Value Measurement*, which eliminates, adds and modifies certain disclosure requirements for fair value measurements. The guidance is effective for all entities for fiscal years beginning after December 15, 2019 and for interim periods within those fiscal years, but entities are permitted to early adopt either the entire standard or only the provisions that eliminate or modify the requirements. The Company does not expect the adoption of the new guidance to have a material effect 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*. This update clarifies the interaction between Topic 808, Collaborative Arrangements, and Topic 606, Revenue from Contracts with Customers. The standard is effective for fiscal years and the interim periods within those fiscal years beginning after December 15, 2019. The guidance is required to be applied retrospectively to the date of initial application of Topic 606. An entity should recognize the cumulative effect of initially applying the amendments as an adjustment to the opening balance of retained earnings of the later of the earliest annual period presented and the annual period that includes the date of the entity’s initial application of Topic 606. The Company is currently assessing the impact that adoption of this guidance will have on its consolidated financial statements.

**3. Short-Term Investments**

The following table summarizes the amortized cost and estimated fair value of the Company’s marketable securities, which are considered to be available-for-sale investments and were included in short-term investments on the consolidated balance sheets:

	<b>Amortized Cost</b>	<b>Unrealized Gains</b>	<b>Unrealized Losses</b>	<b>Fair Value</b>
	<b>(in thousands)</b>			
Balance at March 31, 2019:				
U.S. government-sponsored enterprise securities	\$ 11,821	\$ 7	\$ —	\$ 11,828
U.S. Treasury securities	49,170	22	—	49,192
Total	<u>\$ 60,991</u>	<u>\$ 29</u>	<u>\$ —</u>	<u>\$ 61,020</u>

**ENTASIS THERAPEUTICS HOLDINGS INC.**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**UNAUDITED**

	Amortized Cost	Unrealized Gains	Unrealized Losses	Fair Value
	(in thousands)			
<b>Balance at December 31, 2018:</b>				
U.S. government-sponsored enterprise securities	\$ 6,059	\$ —	\$ —	\$ 6,059
U.S. Treasury securities	29,680	—	(7)	29,673
<b>Total</b>	<b>\$ 35,739</b>	<b>\$ —</b>	<b>\$ (7)</b>	<b>\$ 35,732</b>

Certain short-term debt securities with original maturities of less than 90 days are included in cash and cash equivalents on the consolidated balance sheets and are not included in the tables above. As of March 31, 2019, and December 31, 2018, all investments have contractual maturities within one year.

**4. Fair Value of Instruments**

The following tables set forth the Company's assets that were accounted for at fair value on a recurring basis:

	March 31, 2019			
	Fair Value Measurement Using			
	Level 1	Level 2	Level 3	Total
	(in thousands)			
<b>Cash equivalents:</b>				
Money market funds	\$ 10,814	\$ —	\$ —	\$ 10,814
U.S. Treasury securities	—	—	—	—
<b>Short-term investments:</b>				
U.S. government-sponsored enterprise securities	—	11,828	—	11,828
U.S. Treasury securities	49,192	—	—	49,192
<b>Total</b>	<b>\$ 60,006</b>	<b>\$ 11,828</b>	<b>\$ —</b>	<b>\$ 71,834</b>

	December 31, 2018			
	Fair Value Measurement Using			
	Level 1	Level 2	Level 3	Total
	(in thousands)			
<b>Cash equivalents:</b>				
Money market funds	\$ 18,609	\$ —	\$ —	\$ 18,609
U.S. Treasury securities	19,964	—	—	19,964
<b>Short-term investments:</b>				
U.S. government-sponsored enterprise securities	—	6,059	—	6,059
U.S. Treasury securities	29,673	—	—	29,673
<b>Total</b>	<b>\$ 68,246</b>	<b>\$ 6,059</b>	<b>\$ —</b>	<b>\$ 74,305</b>

The Company classifies its money market funds and U.S. Treasury securities as Level 1 assets under the fair value hierarchy, as these assets have been valued using quoted market prices in active markets without any valuation adjustment. The Company classifies its corporate and municipal notes as Level 2 assets under the fair value hierarchy, as these assets have been valued using information obtained through a third-party pricing service at each balance sheet date, using observable market inputs that may include trade information, broker or dealer quotes, bids, offers, or a combination of these data sources.

**ENTASIS THERAPEUTICS HOLDINGS INC.**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**UNAUDITED**

The carrying amounts of the Company's cash equivalents, grants receivable, accounts payable and accrued expenses approximate their fair value due to the short-term nature of these amounts.

#### **5. Leases**

The Company adopted ASC 842 on January 1, 2019. ASC 842 allows the Company to elect a package of practical expedients, which include: (i) an entity need not reassess whether any expired or existing contracts are or contain leases; (ii) an entity need not reassess the lease classification for any expired or existing leases; and (iii) an entity need not reassess any initial direct costs for any existing leases. Another practical expedient allows the Company to use hindsight in determining the lease term when considering lessee options to extend or terminate the lease and to purchase the underlying asset. The Company has elected to utilize this package of practical expedients and has not elected the hindsight methodology in its implementation of ASC 842.

The Company determined that it held one significant operating lease as of January 1, 2019, consisting of 20,062 square feet of office and laboratory space in Waltham, Massachusetts that expires in December 2022 pursuant to a May 2015 lease with AstraZeneca ("AZ lease"), as amended in February 2018. During the three months ended March 31, 2019 and 2018, the Company recorded lease expense of \$0.2 million and \$0.1 million, respectively, related to this lease. The Company has two additional operating leases that are included in its lease accounting but are not considered significant. During the three months ended March 31, 2019 and 2018, the Company recorded lease expense of \$0.2 million and \$0.1 million, respectively related to all leases.

In calculating the present value of future lease payments, the Company utilized its incremental borrowing rate based on the remaining lease term at the date of adoption. The AZ lease contains a renewal option that can extend the lease for three years. Because the Company is not reasonably certain to exercise this renewal option, the option is not considered in determining the lease term, and associated potential additional payments are excluded from lease payments. The Company has elected to account for each lease component and its associated non-lease components as a single lease component and has allocated all of the contract consideration across lease components only. The Company has existing net leases in which the non-lease components (e.g. common area maintenance) are paid separately from rent based on actual costs incurred and therefore are not included in the operating lease right-of-use assets and lease liabilities and are reflected as an expense in the period incurred.

The following table summarizes the presentation in the Company's consolidated balance sheet of its operating leases (in thousands):

	As of March 31, 2019
<b>Assets</b>	
Operating lease right-of-use assets	\$ 1,949
<b>Liabilities</b>	
Operating lease liabilities	\$ 417
Operating lease liabilities, net of current portion	1,717
Total operating lease liabilities	\$ 2,134

The operating lease right-of-use assets balance primarily relates to amounts associated with the AZ lease. Of the \$2.1 million operating lease liabilities, \$2.1 million represents amounts associated with the AZ lease. During the

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three months ended March 31, 2019, the Company made cash payments of \$0.1 million for operating leases. Future minimum lease payments under non-cancelable leases as of March 31, 2019, were as detailed below (in thousands):

Fiscal Year	As of March 31, 2019
2019 (remaining 9 months)	\$ 454
2020	663
2021	717
2022	737
2023	1
Total undiscounted lease payments	2,572
Less: imputed interest	(438)
Total operating lease liabilities	<u>\$ 2,134</u>

As of March 31, 2019, the weighted average remaining lease term was 3.8 years and the weighted average incremental borrowing rate used to determine the operating lease right-of-use assets was 9.1%.

**ASC 840 Disclosures**

Future minimum lease payments under non-cancelable leases as of December 31, 2018, were as detailed below (in thousands):

Fiscal Year	As of December 31, 2018
2019	597
2020	656
2021	710
2022	730
Total future minimum lease payments	<u>\$ 2,693</u>

**6. Accrued Expenses and Other Current Liabilities**

Accrued expenses and other current liabilities consisted of the following (in thousands):

	March 31, 2019	December 31, 2018
Accrued compensation and benefits	\$ 671	\$ 1,526
Accrued contract manufacturing	1,584	1,003
Accrued clinical costs	628	752
Accrued professional services	788	672
Accrued research costs	229	364
Other	996	529
Total accrued expenses and other current liabilities	<u>\$ 4,896</u>	<u>\$ 4,846</u>

**7. Funding Arrangements**

In December 2016, the Company entered into a funding arrangement with the U.S. Army Medical Research Acquisition Activity (the "USAMRAA grant") that covers up to \$1.1 million of specified research expenditures of the Company incurred from December 2016 through June 2019 (the "performance period"). The Company has until

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September 2022 to obtain the reimbursements from USAMRAA for the specified research expenditures incurred and paid by the Company during the performance period.

The Company recognized grant income of \$37,000 for the three months ended March 31, 2019 and \$0.1 million for the three months ended March 31, 2018. The Company received \$0.2 million of funding under the grant for the three months ended March 31, 2019 and \$0.5 million of funding under the grant for the three months ended March 31, 2018. The Company recorded a receivable to reflect unreimbursed, eligible costs incurred under the grant in the amount of \$45,000 and \$0.2 million as of March 31, 2019 and December 31, 2018, respectively.

In March 2017 and October 2017, the Company entered into funding arrangements with the Trustees of Boston University to utilize funds from the U.S. government through the Combating Antibiotic Resistant Bacteria Biopharmaceutical Accelerator (CARB-X) program. These funding arrangements will cover up to \$16.4 million of specified research expenditures of the Company from April 2017 through September 2021.

The Company recognized grant income in connection with the CARB-X agreements of \$0.8 million and \$1.0 million for the three months ended March 31, 2019 and 2018, respectively. The Company received \$0.6 million and \$0.2 million of funding under the grant for the three months ended March 31, 2019 and 2018, respectively. The Company recorded a receivable to reflect unreimbursed, eligible costs incurred under the CARB-X agreements in the amount of \$1.7 million and \$1.5 million as of March 31, 2019 and December 31, 2018, respectively.

***Collaboration Agreement***

In July 2017, the Company entered into a collaboration agreement (the “Agreement”) with the Global Antibiotic Research and Development Partnership (“GARDP”) for the development, manufacture and commercialization of the product candidate zoliflodacin in certain countries. The Phase 3 clinical trial has not commenced and there have been no material transactions with respect to the agreement as of March 31, 2019.

The Company also had zoliflodacin program activities conducted and funded by the U.S. government through its arrangements with the U.S. National Institute of Allergy and Infectious Diseases, or NIAID.

**8. License and Collaboration Agreement with Zai Lab**

In April 2018, the Company entered into a license and collaboration agreement with Zai Lab, pursuant to which Zai Lab licensed exclusive rights to ETX2514 and ETX2514SUL in the Asia-Pacific region (the “Zai Agreement”). Under the terms of the Zai Agreement, Zai Lab will fund most of the Company’s clinical trial costs in China for ETX2514SUL, including all costs in China for the Company’s Phase 3 clinical trial of ETX2514SUL, with the exception of patient drug supply. Zai Lab will conduct development activities, plan and obtain regulatory approval in a specified number of countries in the Asia-Pacific region beyond China after regulatory approval of a licensed product in China. Zai Lab is also solely responsible for commercializing licensed products in the Asia-Pacific region and will commercialize licensed products for which it has obtained regulatory approval. The Company is obligated to conduct specified development activities for the Asia-Pacific region. The Company is also obligated to supply Zai Lab with the licensed products for clinical development, although Zai Lab may take over manufacturing responsibilities for its own commercialization activities within a specified time period following the effective date of the Zai Agreement. Both parties are prohibited from developing and commercializing products in the Asia-Pacific region that would compete with the licensed products.

In addition, under the Zai Agreement, either party may propose that Zai Lab pursue a combination of imipenem together with ETX2514SUL in the territory. If the parties decide to pursue an imipenem combination, Zai Lab would provide the Company with limited research and development support for the combination.

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The Company received an upfront, non-refundable payment of \$5.0 million, less applicable taxes of \$0.8 million, and \$0.3 million of research support funding, less applicable taxes from Zai Lab in 2018. The Company is eligible to receive up to an aggregate of \$98.3 million in additional research and development support payments and development, regulatory and sales milestone payments related to ETX2514SUL, imipenem and other combinations with the licensed products. In the event the China Food and Drug Administration requires a modification or supplement to the trial protocol, and the Company delays Zai Lab from proceeding with such modified protocol and subsequently obtaining regulatory approval for the pivotal study of ETX2514SUL in China, then the sales-based milestone payments that become due to the Company will be reduced by an agreed upon amount that increases with the length of the delay. Zai Lab will pay the Company a tiered royalty equal to a high-single digit to low-double digit percentage based on annual net sales of licensed products in the territory, subject to specified reductions for the market entry of competing products, loss of patent coverage of licensed products and for payments owed to third parties for additional rights necessary to commercialize licensed products in the territory.

The Company evaluated the Zai Agreement under Topic 606 and identified two material promises: (1) an exclusive license to develop, manufacture and commercialize products containing ETX2514 or ETX2514SUL in the territory and (2) the initial technology transfer of licensed know-how. The Company determined that the exclusive license and initial technology transfer were not distinct from one another, as the license has limited value without the transfer of the Company's technology and Zai Lab would incur additional costs to recreate the Company's know-how. Therefore, the license and initial technology transfer were combined as a single performance obligation.

The Company determined the \$5.0 million non-refundable upfront payment is the entire transaction price at the outset of the Zai Agreement. All other future potential milestone payments were excluded from the transaction price as they are fully constrained as the risk of significant reversal has not yet been resolved. The achievement of the future potential milestones is not within the Company's control and is subject to certain research and development success, regulatory approvals or commercial success and therefore carry significant uncertainty. The Company will reevaluate the likelihood of achieving future milestones at the end of each reporting period. Future development milestone revenue from the arrangement will be recognized as revenue in the period when it is no longer probable that revenue attributable to the milestone will result in a significant reversal of cumulative revenue.

Through March 31, 2019, the Company had recognized revenue of \$5.0 million in the Company's consolidated statements of operations and comprehensive loss under the Zai Agreement. During the three months ended March 31, 2019 and March 31, 2018, the Company recognized no revenue under the Zai Agreement.

## **9. Stock-Based Compensation Expense**

### ***Stock Incentive Plan***

In connection with the Reorganization, Entasis Therapeutics Holdings Inc. assumed the Entasis Limited amended and restated stock incentive plan, and each outstanding share option to purchase ordinary shares of Entasis Limited was assumed by Entasis Therapeutics Holdings Inc. and converted into an option to purchase the same number of shares of common stock of Entasis Therapeutics Holdings Inc. at the same exercise price per share and on the same vesting schedule. Each new option has and is subject to the same terms and conditions as were in effect immediately prior to the assumption and conversion. No share options of Entasis Limited are outstanding following the assumption and conversion.

In September 2018, the Company's board of directors adopted, and its stockholders approved the 2018 Equity Incentive Plan (the "2018 Plan"), which became effective on September 25, 2018, at which point no further grants will be made under the 2015 Stock Incentive Plan (the "2015 Plan"). Under the 2018 Plan, the Company may grant incentive stock options ("ISOs"), non-statutory stock options, stock appreciation rights, restricted stock awards, restricted stock

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units and other stock-based awards. As of March 31, 2019, options to purchase an aggregate of 844,306 shares had been granted and 878,850 shares were available for future issuance under the 2018 Plan.

Initially, subject to adjustment as provided in the 2018 Plan, the aggregate number of shares of the Company's common stock available for issuance under the 2018 Plan was 1,181,972. The number of shares of the Company's common stock reserved for issuance under the 2018 Plan will automatically increase on January 1 of each year, for a period of 10 years, from January 1, 2019 continuing through January 1, 2028, by 4% of the total number of shares of the Company's common stock outstanding on December 31 of the preceding calendar year, or a lesser number of shares as may be determined by the Company's board of directors. Accordingly, on January 1, 2019, 524,993 shares were added to the number of available shares. The maximum number of shares that may be issued pursuant to the exercise of ISOs under the 2018 Plan is 7,500,000.

The maximum number of shares of the Company's common stock subject to awards granted under the 2018 Plan or otherwise during a single calendar year to any nonemployee directors, taken together with any cash fees paid by the Company to such nonemployee director during the calendar year for serving on the Company's board of directors, will not exceed \$500,000 in total value, or, with respect to the calendar year in which a nonemployee director is first appointed or elected to the Company's board of directors, \$800,000.

All options and awards granted under the 2015 Plan consisted of the Company's common stock. As of September 25, 2018, no additional stock awards have been or will be granted under the 2015 plan. Although the 2015 Plan was terminated as to future awards in September 2018, it continues to govern the terms of options that remain outstanding under the 2015 Plan.

***Stock Option Activity***

Stock option activity under both plans for the three months ended March 31, 2019 is summarized as follows:

	Number of <u>Options</u>	Weighted- Average Exercise <u>Price</u>	Weighted- Average Remaining Contractual <u>Term (Years)</u>	Aggregate Intrinsic Value (in thousands)
Outstanding as of December 31, 2018	1,375,730	\$ 6.54	8.66	\$ 426
Granted	601,200	5.67		
Exercised	(2,286)	4.55		
Cancelled or forfeited	(7,668)	7.19		
Outstanding as of March 31, 2019	<u>1,966,976</u>	\$ 6.28	8.84	\$ 2,973
Vested or expected to vest as of March 31, 2019	1,966,976	\$ 6.28	8.84	\$ 2,973
Exercisable as of March 31, 2019	563,190	\$ 4.57	7.69	\$ 1,243

The aggregate intrinsic value of options is calculated as the difference between the exercise price of the options and the fair value of the Company's common stock for those options that had exercise prices lower than the fair value of the Company's common stock.

During the three months ended March 31, 2019, the weighted-average grant date fair value per granted option was \$3.89. There were no stock option awards granted in the three months ended March 31, 2018.

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**Employee Stock Purchase Plan**

In September 2018, the Company's board of directors and its stockholders approved the 2018 Employee Stock Purchase Plan (the "ESPP"), which became effective as of September 25, 2018. The ESPP is intended to qualify as an "employee stock purchase plan" within the meaning of Section 423 of the U.S. Internal Revenue Code of 1986, as amended. The number of shares of common stock initially reserved for issuance under the ESPP was 140,000 shares. The ESPP provides for an annual increase on the first day of each year beginning in 2019 and ending in 2028, in each case subject to the approval of the board of directors, equal to the lesser of (i) 1% of the shares of common stock outstanding on the last day of the prior fiscal year or (ii) 250,000 shares; provided, that prior to the date of any such increase, the board of directors may determine that such increase will be less than the amount set forth in clauses (i) and (ii). Pursuant to the terms of the 2018 Employee Stock Purchase Plan, an additional 131,248 shares were added to the number of available shares effective January 1, 2019. As of March 31, 2019, no shares of common stock had been issued under the ESPP and 271,248 shares remained available for future issuance under the ESPP. No offering period under the ESPP has been set by the Company's board of directors.

**Stock-Based Compensation**

Stock-based compensation expense was classified in the consolidated statement of operations as follows (in thousands):

	Three Months Ended March 31,	
	2019	2018
Research and development	\$ 232	\$ 72
General and administrative	346	128
Total stock-based compensation expense	<u>\$ 578</u>	<u>\$ 200</u>

As of March 31, 2019, total unrecognized stock-based compensation expense related to unvested options was \$6.1 million, which is expected to be recognized over the weighted average period of approximately 2.9 years. The total unrecognized stock-based compensation expense will be adjusted for actual forfeitures as they occur.

The following weighted-average assumptions were used to calculate the fair value of each stock-based option award granted during the three months ended March 31, 2019, under the Black-Scholes option-pricing model: expected stock price volatility 78.0%; risk free interest rate 2.7%; expected life of options 6.0 years and a dividend yield of zero. There were no stock option awards granted during the three months ended March 31, 2018.

**10. Net Loss per Share**

Basic net loss per share is calculated by dividing the net loss by the weighted average number of shares of common stock outstanding for the period, without consideration for common stock equivalents. The Company's potentially dilutive shares, which include outstanding stock options, are considered to be common stock equivalents and are only included in the calculation of diluted net loss per share when their effect is dilutive.

The amounts in the table below were excluded from the calculation of net loss per share, due to their anti-dilutive effect:

	As of March 31,	
	2019	2018
Options to purchase shares of common stock	1,966,976	811,386
Redeemable convertible preferred stock (as converted to common stock)	—	7,474,930
	<u>1,966,976</u>	<u>8,286,316</u>

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**11. Commitments**

*Lease Commitments*

The Company has an operating lease agreement for its office and laboratory space with AstraZeneca. See Note 5 for additional information.

*A Subscription Agreement*

In connection with the A Subscription Agreement, the Company agreed to pay AstraZeneca a one-time milestone payment of \$5.0 million within three months of achieving a specified cumulative net sales milestone for ETX2514. This milestone payment will be automatically waived should the Company's common stock trade on Nasdaq at or above a specified price at the time it achieves such specified cumulative net sales milestone for ETX2514. The Company is also obligated to pay AstraZeneca a one-time milestone payment of \$10.0 million within two years of achieving the first commercial sale of zoliflodacin. At the Company's election, either milestone payment may be paid in cash, common stock, or a combination of cash and common stock. Additionally, the Company is obligated to pay AstraZeneca tiered, single-digit, per-country royalties on the annual worldwide net sales of ETX2514 and zoliflodacin.

**12. Related Party Transactions**

The Company was formed in May 2015 as a wholly owned subsidiary of AstraZeneca, which maintained a controlling interest in the Company until March 2016. Prior to the closing of the initial public offering on September 28, 2018, AstraZeneca was the sole A Preferred Stockholder. Upon the closing of the initial public offering, all shares of preferred stock converted into shares of common stock.

*Lease Commitments*

The Company has an operating lease agreement for its office and laboratory space with AstraZeneca. See Note 5, *Leases*, for additional information.

*Pharmaron Beijing Co., Ltd. (China)*

The Company contracts with Pharmaron Beijing Co., Ltd. (China), or Pharmaron, to provide various medicinal chemistry research and manufacturing development services related to our ongoing product candidates. The Company began utilizing Pharmaron as a service provider prior to the spin-out in 2015 (see Note 1), and this relationship has continued into 2019. In 2019, the Senior Vice President of Strategic Partnerships at Pharmaron began sharing a household with the Company's Chief Executive Officer, and as a result the Company now considers the agreements between the Company and Pharmaron to be related-party transactions. In the three months ended March 31, 2019, the Company recorded expense of \$2.2 million for services rendered pursuant to multiple Pharmaron agreements. Amounts due to Pharmaron were \$0.8 million as of March 31, 2019.

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

*The following information should be read in conjunction with the unaudited consolidated financial information and the notes thereto included in this Quarterly Report on Form 10-Q.*

*This discussion contains certain 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. Forward-looking statements are identified by words such as "believe," "will," "may," "estimate," "continue," "anticipate," "intend," "should," "plan," "expect," "predict," "could," "potentially" or the negative of these terms or similar expressions. You should read these statements carefully because they discuss future expectations, contain projections of future results of operations or financial condition, or state other "forward-looking" information. These statements relate to our future plans, objectives, expectations, intentions and financial performance and the assumptions that underlie these statements. These forward-looking statements are subject to certain risks and uncertainties that could cause actual results to differ materially from those anticipated in the forward-looking statements. Factors that might cause such a difference include, but are not limited to, those discussed in Item 1A of Part I under the heading "Risk Factors" in our Annual Report on Form 10-K for the year ended December 31, 2018, filed with the Securities and Exchange Commission (SEC) on March 29, 2019. Forward-looking statements are based on our management's beliefs and assumptions and on information currently available to our management. These statements, like all statements in this report, speak only as of their date, and except as required by law, we undertake no obligation to update or revise these statements in light of future developments. We caution investors that our business and financial performance are subject to substantial risks and uncertainties.*

### Overview

We are a clinical-stage biopharmaceutical company focused on the discovery, development and commercialization of novel antibacterial products to treat serious infections caused by multidrug-resistant Gram-negative bacteria. Leveraging our targeted-design platform, we have engineered and developed product candidates that target clinically validated mechanisms to address antibiotic resistance. Our lead product candidate, ETX2514, as well as one of our other product candidates, ETX0282, inhibit one of the most prevalent forms of bacterial resistance,  $\beta$ -lactamase enzymes, so-named because of their ability to inactivate  $\beta$ -lactam antibiotics, one of the most commonly used classes of antibiotics. By blocking this resistance mechanism, these product candidates, when administered in combination with  $\beta$ -lactam antibiotics, are designed to restore the efficacy of those antibiotics. Our other product candidate, zoliflodacin, targets the validated mechanism of action of the fluoroquinolone class of antibiotics, but does so in a novel manner to avoid existing fluoroquinolone resistance.

ETX2514SUL is a fixed-dose combination of ETX2514, a novel broad-spectrum intravenous, or IV,  $\beta$ -lactamase inhibitor, or BLI, with sulbactam, an IV  $\beta$ -lactam antibiotic, that we are developing for the treatment of a variety of serious multidrug-resistant infections caused by *Acinetobacter baumannii*, or *Acinetobacter*. We have completed three separate Phase 1 clinical trials, including one evaluating the penetration of ETX2514SUL into the lung and one in renally impaired patients. In addition, we have completed a Phase 2 clinical trial in patients with complicated urinary tract infections, or UTIs. Based on a series of discussions with the U.S. Food and Drug Administration, or FDA, including an end-of-Phase-2 meeting, we initiated the single Phase 3 clinical trial in April 2019, with data expected in the second half of 2020.

Zoliflodacin is a novel orally administered molecule that inhibits bacterial gyrase, an essential enzyme in bacterial reproduction, for the treatment of drug-resistant *Neisseria gonorrhoeae*, the bacterial pathogen responsible for gonorrhea. Intramuscular ceftriaxone now represents the last-resort treatment option for gonorrhea, although resistant strains are beginning to emerge. We believe that there is a growing unmet need for an oral antibiotic, that will reliably treat patients with gonorrhea, including multidrug-resistant gonorrhea. We have completed several Phase 1 clinical trials and a Phase 2 clinical trial of zoliflodacin in patients with uncomplicated gonorrhea. The results of the Phase 2 clinical trial were published in the New England Journal of Medicine in November 2018. We intend to initiate a Phase 3 clinical trial in mid-2019 with data expected in 2021. The Phase 3 clinical trial will be funded by our nonprofit collaborator, the Global Antibiotic Research and Development Partnership, or GARDP.

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We are also developing ETX0282CPDP for the treatment of complicated UTIs, including those caused by extended-spectrum  $\beta$ -lactamase, or ESBL, producing bacterial strains or carbapenem-resistant *Enterobacteriaceae*, or CRE. ETX0282CPDP is an oral, fixed dose combination of ETX0282, a novel oral BLI, with cefpodoxime proxetil, an oral  $\beta$ -lactam antibiotic. We believe there is a significant unmet need for new oral antibiotics that reliably treat patients with multidrug-resistant Gram-negative infections. We initiated a multi-part Phase 1 clinical trial of ETX0282CPDP in Australia in the second quarter of 2018 and expect to receive data from the Phase 1 trial in mid-2019.

We are using our targeted-design platform in an attempt to develop a novel class of antibiotics, non  $\beta$ -lactam inhibitors of the penicillin binding proteins, or NBPs. Penicillin binding proteins, or PBPs, are clinically validated targets of  $\beta$ -lactam antibiotics, such as penicillins and carbapenems. Due to their differentiated chemical structure, our NBPs are not subject to inactivation by  $\beta$ -lactamases, unlike  $\beta$ -lactam antibiotics. Accordingly, we believe our NBPs constitute a potential new class of Gram-negative antibacterial agents with no pre-existing resistance that are designed to target a broad spectrum of pathogens, including *Pseudomonas aeruginosa*, or *Pseudomonas*. We expect to select an initial clinical candidate from our NBP program in 2019.

Since our inception in May 2015, we have devoted substantially all of our resources to organizing and staffing our company, business planning, raising capital, acquiring or discovering product candidates and securing related intellectual property rights, conducting discovery and development activities for our programs and planning for potential commercialization. We do not have any products approved for sale and therefore have not generated any revenue from product sales. As of March 31, 2019, we have funded our operations primarily with net cash proceeds of \$104.2 million from the sale of our preferred stock and net cash proceeds of approximately \$65.6 million from the sale of common stock in our initial public offering, or IPO. We have also either directly received funding or financial commitments from, or have had our program activities conducted and funded by, the U.S. government through our arrangements with the U.S. National Institute of Allergy and Infectious Diseases, or NIAID, the Combating Antibiotic Resistant Bacteria Biopharmaceutical Accelerator program, or CARB-X, and the U.S. Department of Defense, and have received non-profit awards from GARDP, and an upfront payment from our license and collaboration agreement with Zai Lab (Shanghai), Co., Ltd., or Zai Lab.

Since our inception, we have incurred significant operating losses. Our ability to generate product revenue sufficient to achieve profitability will depend heavily on the successful development and eventual commercialization of one or more of our current or future product candidates and programs. Our net losses were \$12.9 million and \$33.0 million for the three months ended March 31, 2019 and the year ended December 31, 2018, respectively. As of March 31, 2019, we had an accumulated deficit of \$103.1 million. We anticipate that a substantial portion of our capital resources and efforts in the foreseeable future will be focused on completing the necessary development, obtaining regulatory approval and preparing for potential commercialization of our product candidates.

We expect to continue to incur significant expenses and increasing operating losses for at least the next several years. Our net losses may fluctuate significantly from period to period, depending on the timing of our planned clinical trials and expenditures on other research and development activities. We expect our expenses will increase substantially over time as we:

- continue our ongoing and planned preclinical and clinical development of our product candidates;
- initiate preclinical studies and clinical trials for any additional product candidates that we may pursue in the future;
- seek to discover and develop additional product candidates;
- seek regulatory approvals for any product candidates that successfully complete clinical trials;
- ultimately establish a sales, marketing and distribution infrastructure and scale up external manufacturing capabilities to commercialize any product candidate for which we may obtain regulatory approval and intend to commercialize on our own;

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- maintain, expand and protect our intellectual property portfolio;
- hire additional clinical, scientific and chemistry, manufacturing and controls personnel; and
- add additional operational, financial and management information systems and personnel, including personnel to support our product development and planned future commercialization efforts.

Furthermore, we now incur additional costs associated with operating as a public company that we did not previously incur or previously incurred at lower rates, including significant legal, accounting, investor relations and other expenses that we did not incur as a private company.

### **Initial Public Offering; Reverse Stock Split**

On September 28, 2018, we completed our IPO, in which we issued and sold 5,000,000 shares of common stock at a price to the public of \$15.00 per share. The aggregate net proceeds to us from the IPO were approximately \$65.6 million after deducting underwriting discounts and commissions and offering expenses payable by us. The shares began trading on The Nasdaq Global Market on September 26, 2018. Upon the completion of the IPO, all of our outstanding shares of redeemable convertible preferred stock, including accrued dividends, automatically converted into 8,084,414 shares of our common stock. In September 2018, we also effected a 1-for-20.728 reverse stock split of our issued and outstanding common stock. All of our historical share and per share information shown in the accompanying consolidated financial statements and related notes have been retroactively adjusted to give effect to the reverse stock split.

### **The Corporate Reorganization**

We completed a corporate reorganization on April 23, 2018. As part of the corporate reorganization, we formed Entasis Therapeutics Holdings Inc., a Delaware corporation, in March 2018 with nominal assets and liabilities for the purpose of consummating the corporate reorganization described herein. In connection with the corporate reorganization, the existing shareholders of Entasis Therapeutics Limited exchanged their shares for the same number and classes of newly issued shares in Entasis Therapeutics Holdings Inc. As a result, Entasis Therapeutics Limited became a wholly owned subsidiary of Entasis Therapeutics Holdings Inc.

Upon completion of the corporate reorganization on April 23, 2018, the historical consolidated financial statements of Entasis Therapeutics Limited became the historical consolidated financial statements of Entasis Therapeutics Holdings Inc.

### **Funding Arrangements**

In December 2016, we entered into a funding arrangement with the U.S. Army Medical Research Acquisition Activity, or USAMRAA, a division of the U.S. Department of Defense, through which we received a grant. This grant covered funding for up to \$1.1 million of specified research expenditures incurred from December 2016 through June 2019, or the performance period. Specified research expenditures are the reimbursable expenses associated with agreed upon activities needed to advance the research project supported by the grant. These expenditures can include internal labor, laboratory supplies and equipment, travel, consulting and third-party vendor research and development support costs. We have until September 30, 2022 to obtain reimbursements from USAMRAA for the fully paid, specified research expenditures incurred during the performance period. As of March 31, 2019, we had recorded \$1.1 million of grant income and we had received \$1.0 million in payments under this grant.

In March 2017 and October 2017, we entered into funding arrangements with the Trustees of Boston University to utilize funds from the U.S. government, through the CARB-X program, for support of our ETX0282 and NBP programs. These funding arrangements will cover up to \$16.4 million of our specified research expenditures from April 2017 through September 2021. As of March 31, 2019, we had recorded \$6.5 million of grant income and we had received \$5.1 million in payments under this grant.

In July 2017, we entered into a collaboration agreement with GARDP for the development and commercialization of the product candidate zoliflodacin in certain countries. Under the terms of the collaboration agreement, GARDP will fully fund the Phase 3 clinical trial, including the manufacture and supply of zoliflodacin, in uncomplicated gonorrhea.

In April 2018, we entered into a license and collaboration agreement with Zai Lab (Shanghai) Co., Ltd., or Zai Lab, pursuant to which Zai Lab licensed exclusive rights to ETX2514 and ETX2514SUL in the Asia-Pacific region. Under the terms of the agreement, Zai Lab will fund most of our clinical trial costs in China for ETX2514SUL, including all costs in China for our Phase 3 clinical trial of ETX2514SUL, with the exception of patient drug supply. As of March 31, 2019, we had received net payments of \$4.5 million, representing the \$5.0 million upfront payment and \$0.3 million of research support payments, less applicable taxes, from Zai Lab and we had recognized revenue of \$5.0 million under the agreement.

## **Components of Results of Operations**

### *Operating Expenses*

#### *Research and Development Expenses*

Research and development expenses consist primarily of costs incurred for our research activities, including our product discovery efforts and the development of our preclinical and clinical product candidates. These expenses include:

- employee-related expenses, including salaries and benefits, travel and stock-based compensation expense for employees engaged in research and development functions;
- fees paid to consultants for services directly related to our product development and regulatory efforts;
- expenses incurred under agreements with contract research organizations, or CROs, as well as contract manufacturing organizations, or CMOs, and consultants that conduct and provide supplies for our preclinical studies and clinical trials;
- costs associated with preclinical activities and development activities;
- costs associated with our technology and our intellectual property portfolio;
- costs related to compliance with regulatory requirements; and
- facilities-related expenses, which include allocated rent and maintenance of facilities and other operating costs.

Costs associated with research and development activities are expensed as incurred. Costs for certain development activities, such as clinical trials, are recognized based on an evaluation of the progress to completion of specific tasks using data such as patient enrollment, clinical site activations or other information provided to us by our vendors. Nonrefundable advance payments for goods or services to be received in the future for use in research and development activities are recorded as prepaid expenses. Such amounts are recognized as an expense as the goods are delivered or the related services are performed, or until it is no longer expected that the goods will be delivered, or the services rendered.

Our direct research and development expenses are tracked on a program-by-program basis for our product candidates and preclinical program and consist primarily of external costs, such as fees paid to outside consultants, CROs, CMOs and central laboratories in connection with our preclinical development, process development, manufacturing and clinical development activities. Our direct research and development expenses by program also

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include fees incurred under service, license or option agreements. We do not allocate employee costs or facility expenses to specific programs because these costs are deployed across multiple programs and, accordingly, are not separately classified. We primarily use internal resources and our own employees to conduct our research and discovery as well as for managing our preclinical development, process development, manufacturing and clinical development activities.

To date, substantially all of our research and development expenses have been related to the preclinical and clinical development of our product candidates and preclinical program. The following table shows our research and development expenses by development program and type of activity (in thousands):

	Three Months Ended	
	March 31,	
	2019	2018
Direct research and development expenses by program:		
ETX2514	\$ 6,916	\$ 4,035
ETX0282	703	1,568
Zoliflodacin	15	28
Other preclinical programs	601	457
Unallocated expenses:		
Personnel related (including stock-based compensation)	2,264	1,873
Facility related and other	503	589
Total research and development expenses	<u>\$ 11,002</u>	<u>\$ 8,550</u>

Research and development activities are central to our business model. Product candidates in later stages of clinical development generally have higher development costs than those in earlier stages of clinical development, primarily due to the increased size and duration of later-stage clinical trials. We expect our research and development expenses to increase over the next several years as we progress our product candidates through clinical development. However, it is difficult to determine with certainty the duration and completion costs of our current or future preclinical programs and clinical trials of our product candidates, or if, when or to what extent we will generate revenues from the commercialization and sale of any of our product candidates that obtain regulatory approval. We may never succeed in achieving regulatory approval for any of our product candidates.

The duration, costs and timing of clinical trials and development of our product candidates and preclinical program will depend on a variety of factors that include, but are not limited to, the following:

- the number of trials required for approval and any requirement for extension trials;
- per-patient trial costs;
- the number of patients that participate in the trials;
- the number of sites included in the trials;
- the countries in which the trials are conducted;
- the length of time required to enroll eligible patients;
- the number of doses that patients receive;
- the drop-out or discontinuation rates of patients;
- potential additional safety monitoring or other studies requested by regulatory agencies;
- the duration of patient follow-up; and

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- the efficacy and safety profiles of the product candidates.

Any changes in the outcome of any of these factors with respect to the development of our product candidates could mean a significant change in the costs and timing associated with the development of these product candidates. In addition, the probability of success for each product candidate will depend on numerous factors, including competition, manufacturing and supply, and commercial viability. We will determine which programs to pursue and how much to fund each program based on the scientific and clinical success of each product candidate, as well as an assessment of each candidate's commercial potential.

### *General and Administrative Expenses*

General and administrative expenses consist of salaries and benefits, travel and stock-based compensation expense for personnel in executive, finance and administrative functions. General and administrative costs also include facilities-related costs not otherwise included in research and development expenses and professional fees for legal, patent, consulting, accounting and audit services.

We anticipate that our general and administrative expenses will increase in the future as we increase our headcount to support our continued research activities and development of our product candidates. We also anticipate that we will continue to incur increased accounting, audit, legal, regulatory, compliance and director and officer insurance costs as well as investor and public relations expenses associated with being a public company. Additionally, as we now have an ongoing Phase 3 trial and are in the early stages of planning for potential product commercialization, we also anticipate incurring additional expenses related to increased headcount, for example, our recent hire of a Chief Commercial Officer. When we believe regulatory approval of a product candidate appears more likely, we anticipate further increases in payroll and other employee-related expenses as a result of our preparation for commercial operations, especially as it relates to the sales and marketing functions for that product candidate.

### **Other Income**

#### *Grant Income*

Grant income consists of income recognized in connection with grants we received under our funding arrangements with USAMRAA and the Trustees of Boston University through the CARB-X program. Grant income is recognized in the period during which the related specified expenses are incurred.

#### *Interest Income*

Interest income consists of interest earned on our cash and investment balances.

### **Income Taxes**

The provision for income taxes primarily consists of provisions for foreign withholding income taxes on payments related to our agreement with Zai Lab.

### **Critical Accounting Policies and Significant Judgments and Estimates**

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

There have been no significant changes to our critical accounting policies from those described in “Management’s Discussion and Analysis of Financial Condition and Results of Operations,” disclosed in our most recent Annual Report on Form 10-K.

**Results of Operations**

**Three Months Ended March 31, 2019 and 2018**

The following table summarizes our results of operations for the periods presented:

	Three Months Ended March 31,		\$ Change
	2019	2018	
(in thousands)			
<b>Operating expenses:</b>			
Research and development	\$ 11,002	\$ 8,550	\$ 2,452
General and administrative	3,189	3,218	(29)
Total operating expenses	14,191	11,768	2,423
Loss from operations	(14,191)	(11,768)	(2,423)
<b>Other income:</b>			
Grant income	829	1,089	(260)
Interest income	492	12	480
Total other income	1,321	1,101	220
Loss before income taxes	(12,870)	(10,667)	(2,203)
Provision for income taxes	71	—	71
Net loss	\$ (12,941)	\$ (10,667)	\$ (2,274)

*Research and Development Expenses*

Research and development expenses were \$11.0 million for the three months ended March 31, 2019, compared to \$8.6 million for the three months ended March 31, 2018. The increase of \$2.5 million was primarily due to an increase of \$2.9 million in preclinical and clinical development expenses related to the advancement of our ETX2514SUL product candidate and an increase of \$0.3 million in personnel expenses associated with higher headcount and higher stock-based compensation expense resulting from options granted during the year ended December 31, 2018 and the three months ended March 31, 2019, offset in part by a decrease of \$0.9 million in preclinical and clinical development expenses related to the advancement of our ETX0282CPDP product candidate. The increase in preclinical and clinical development expenses of \$2.9 million associated with the advancement of ETX2514SUL was primarily due to an increase of \$1.9 million in clinical development costs, an increase of \$0.9 million in drug manufacturing costs and an increase of \$0.1 million in preclinical expenses. The decrease of \$0.9 million in preclinical and clinical development expenses related to the advancement of our ETX0282CPDP was primarily due to a decrease of \$1.2 million in drug manufacturing costs and a decrease of \$0.2 million in preclinical expenses, offset by an increase of \$0.5 million in clinical development costs.

*General and Administrative Expenses*

General and administrative expenses were \$3.2 million for both the three months ended March 31, 2019 and 2018. Included in general and administrative expenses is an increase of \$0.4 million in outside services and an increase of \$0.3 million in personnel expenses associated with higher headcount and higher stock-based compensation expense resulting from options granted during the year ended December 31, 2018 and the three months ended March 31, 2019. These increases are offset by a decrease of \$0.6 million in legal and professional fees associated with the preparation, audit and review of our consolidated financial statements.

*Other Income*

Other income was \$1.3 million for the three months ended March 31, 2019, compared to \$1.1 million for the three months ended March 31, 2018. The increase of \$0.2 million was due to an increase of \$0.5 million in interest income offset by a decrease in grant income of \$0.3 million primarily associated with our grant agreements with the CARB-X program.

*Income Taxes*

Provision for income taxes was \$0.1 million for the three months ended March 31, 2019 compared to zero for the three months ended March 31, 2018. Our losses before income taxes were generated in the United States.

**Liquidity and Capital Resources**

*Overview*

As of March 31, 2019, we had raised aggregate net cash proceeds of \$104.2 million from the sale of redeemable convertible preferred stock and approximately \$65.6 million of net proceeds from the sale of common stock in our IPO, which we have used to fund our operations. In addition, we have also either directly received funding or financial commitments from, or have had our program activities conducted and funded by, the U.S. government through our arrangements with NIAID, CARB-X and the U.S. Department of Defense, and have received non-profit awards from GARDP and an upfront and research support payments from Zai Lab. As of March 31, 2019, we had cash, cash equivalents and short-term investments of \$74.6 million.

We have incurred operating losses and experienced negative operating cash flows since our inception and anticipate that we will continue to incur losses for at least the next several years. Our net loss was \$12.9 million for the three months ended March 31, 2019. As of March 31, 2019, we had an accumulated deficit of \$103.1 million.

We believe that our existing cash, cash equivalents and short-term investments will enable us to fund our operating expenses and capital expenditure requirements into the fourth quarter of 2020. We have based this estimate on assumptions that may prove to be wrong, and we could exhaust our available capital resources sooner than we expect.

*Funding Requirements*

Our primary uses of capital are, and we expect will continue to be, compensation and related expenses, third-party clinical research and development services, laboratory and related supplies, manufacturing development costs, legal and other regulatory expenses and general administrative costs.

The successful development of our product candidates is highly uncertain. At this time, we cannot reasonably estimate or know the nature, timing and estimated costs of the efforts that will be necessary to complete the clinical development of our product candidates and obtain regulatory approvals. We are also unable to predict when, if ever, net cash inflows will commence from product sales. This is due to the numerous risks and uncertainties associated with developing drugs, including, among others, the uncertainty of:

- successful enrollment in, and completion of clinical trials;
- performing preclinical studies and clinical trials in compliance with the FDA, the EMA or any comparable regulatory authority requirements;
- the ability of collaborators to manufacture sufficient quantity of product for development, clinical trials or potential commercialization;

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- obtaining marketing approvals with labeling for sufficiently broad patient populations and indications, without unduly restrictive distribution limitations or safety warnings, such as black box warnings or a Risk Evaluation and Mitigation Strategies program;
- obtaining and maintaining patent, trademark and trade secret protection and regulatory exclusivity for our product candidates;
- making arrangements with third parties for manufacturing capabilities;
- launching commercial sales of products, if and when approved, whether alone or in collaboration with others;
- acceptance of the therapies, if and when approved, by physicians, patients and third-party payors;
- competing effectively with other therapies;
- obtaining and maintaining healthcare coverage and adequate reimbursement;
- protecting our rights in our intellectual property portfolio; and
- maintaining a continued acceptable safety profile of our drugs following approval.

A change in the outcome of any of these variables with respect to the development of any of our product candidates would significantly change the costs and timing associated with the development of that product candidate.

We will not generate revenue from product sales unless and until we or a collaborator successfully complete clinical development and obtain regulatory approval for our current and future product candidates. If we obtain regulatory approval for any of our product candidates that we intend to commercialize on our own, we will incur significant expenses related to commercialization, including developing our internal commercialization capability to support product sales, marketing and distribution.

As a result, we will need substantial additional funding to support our continuing operations and to pursue our growth strategy. Until such time, if ever, when we can generate substantial product revenue, we expect to finance our cash needs through a combination of equity offerings, debt financings and potential collaboration, license and development agreements. To the extent that we raise additional capital through the sale of equity or convertible debt securities, your ownership interest will be diluted, and the terms of these securities may include liquidation or other preferences that adversely affect your rights as a stockholder. Debt financing and preferred equity financing, if available, may involve agreements that include covenants limiting or restricting our ability to take specific actions, such as incurring additional debt, making capital expenditures or declaring dividends.

If we raise additional funds through collaborations, strategic alliances or marketing, distribution or licensing arrangements with third parties, we may be required to relinquish valuable rights to our technologies, future revenue streams, research programs or product candidates or to 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 drug development or future commercialization efforts or grant rights to a third party to develop and market product candidates that we would otherwise prefer to develop and market ourselves. Our failure to raise capital as and when needed would compromise our ability to pursue our business strategy.

We will also continue to incur costs as a public company that we did not previously incur or previously incurred at lower rates, including increased fees payable to the nonemployee members of our board of directors, increased personnel costs, increased director and officer insurance premiums, audit and legal fees, investor relations fees and expenses for compliance with public-company reporting requirements under the Exchange Act and rules implemented by the SEC and Nasdaq.

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Because of the numerous risks and uncertainties associated with product development, we are unable to predict the timing or amount of increased expenses or when or if we will be able to achieve or maintain profitability. Even if we are able to generate product sales, we may not become profitable. If we fail to become profitable or are unable to sustain profitability on a continuing basis, we may be unable to continue our operations at planned levels and be forced to reduce or terminate our operations.

**Cash Flows**

The following table summarizes our cash flows for the periods presented (in thousands):

	Three Months Ended	
	March 31,	
	2019	2018
Net cash used in operating activities	\$ (10,599)	\$ (13,092)
Net cash used in investing activities	(25,087)	(137)
Net cash used in financing activities	(139)	(1,706)
Effect of exchange rate changes on cash and cash equivalents	—	(44)
Net decrease in cash and cash equivalents	<u>\$ (35,825)</u>	<u>\$ (14,979)</u>

*Operating Activities*

During the three months ended March 31, 2019, operating activities used \$10.6 million of cash, resulting primarily from our net loss of \$12.9 million offset by net cash provided by changes in operating assets and liabilities of \$1.9 million and non-cash charges of \$0.4 million. Net cash provided by changes in operating assets and liabilities for the three months ended March 31, 2019 consisted primarily of a \$2.7 million increase in accounts payable and a \$1.9 million increase in accrued expenses and other current liabilities. These sources of cash were partially offset by a \$2.5 million increase in prepaid expenses and other assets.

During the three months ended March 31, 2018, operating activities used \$13.1 million of cash, resulting from our net loss of \$10.7 million and net cash used for changes in operating assets and liabilities of \$2.7 million, partially offset by non-cash charges of \$0.3 million. Net cash used for changes in operating assets and liabilities for the three months ended March 31, 2018 consisted primarily of a \$2.3 million decrease in accrued expenses, mainly due to a decrease in contract manufacturing activities, a \$0.7 million increase in grants receivable and a \$0.3 million increase in prepaid expenses and other assets. These were partially offset by a \$0.6 million increase in accounts payable related to an increase in clinical trial costs and associated drug manufacturing costs for the advancement of ETX2514 and ETX0282.

*Investing Activities*

During the three months ended March 31, 2019, net cash used in investing activities was \$25.1 million, consisting primarily of our purchase of short-term investments.

During the three months ended March 31, 2018, net cash used in investing activities was \$0.1 million, consisting of our purchase of property and equipment.

*Financing Activities*

During the three months ended March 31, 2019, net cash used by financing activities was \$0.1 million, which consisted primarily of payment of initial public offering costs.

During the three months ended March 31, 2018, net cash used in financing activities was \$1.7 million, which related to payments of deferred initial public offering costs.

### **Contractual Obligations and Commitments**

As a smaller reporting company, we are not required to provide the disclosure required by Item 303(a)(5) of Regulation S-K.

### **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.

### **Recent Accounting Pronouncements**

Refer to Note 2, “Summary of Significant Accounting Policies,” in the accompanying notes to our unaudited consolidated financial statements appearing elsewhere in this Quarterly Report on Form 10-Q for a discussion of recent accounting pronouncements.

### **Emerging Growth Company Status**

The Jumpstart Our Business Startups Act of 2012 permits an “emerging growth company” such as us to take advantage of an extended transition period to comply with new or revised accounting standards applicable to public companies until those standards would otherwise apply to private companies. We have irrevocably elected to “opt out” of this provision and, as a result, we will comply with new or revised accounting standards when they are required to be adopted by public companies that are not emerging growth companies.

### **Item 3. Quantitative and Qualitative Disclosures About Market Risk.**

As a smaller reporting company, we are not required to provide disclosure for this Item.

### **Item 4. Controls and Procedures.**

#### **Evaluation of Disclosure Controls and Procedures.**

We maintain “disclosure controls and procedures,” as defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934, as amended, or the Exchange Act, that are designed to ensure that information required to be disclosed in the reports that we file or submit under the Exchange Act is (1) recorded, processed, summarized and reported, within the time periods specified in the SEC’s rules and forms and (2) accumulated and communicated to our management, including our principal executive officer and principal financial officer, 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.

Our management, with the participation of our Chief Executive Officer and Chief Financial Officer, evaluated the effectiveness of our disclosure controls and procedures as of March 31, 2019. Based upon the evaluation, our Chief Executive Officer and Chief Financial Officer concluded that, as of such date, our disclosure controls and procedures were effective at a reasonable assurance level.

#### **Changes in Internal Control over Financial Reporting.**

There was no change in our internal control over financial reporting that occurred during our most recent fiscal quarter that materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

## PART II—OTHER INFORMATION

### Item 1. Legal Proceedings.

From time to time, we may become involved in legal proceedings arising in the ordinary course of our business. We are not currently a party to any material legal proceedings, and we are not aware of any pending or threatened legal proceeding against us that we believe could have an adverse effect on our business, operating results or financial condition.

### Item 1A. Risk Factors.

There have been no material changes in risk factors discussed in Part I, Item 1A. Risk Factors in our most recent Annual Report filed on Form 10-K.

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

#### *Use of Proceeds from Our IPO*

On September 28, 2018, we completed our initial public offering in which we issued and sold 5,000,000 shares of common stock at a price to the public of \$15.00 per share, for gross proceeds of \$75.0 million and net proceeds of approximately \$65.6 million after deducting underwriting discounts and commissions and other offering expenses. None of the expenses associated with the IPO were paid to directors, officers, persons owning 10% or more of any class of our equity securities, or to their associates, or to our affiliates. The offer and sale of our shares were registered pursuant to a Registration Statement on Form S-1 (Registration No. 333 226920), which was declared effective on September 25, 2018, or the Registration Statement. Credit Suisse Securities (USA) LLC and BMO Capital Markets Corp. acted as lead book-running managers. SunTrust Robinson Humphrey, Inc. and Wedbush Securities Inc. acted as co-managers for the IPO. Shares of our common stock began trading on The Nasdaq Global Market on September 26, 2018.

There has been no material change in the planned use of proceeds from our IPO as described in our Prospectus that forms a part of our Registration Statement, which was filed with the SEC pursuant to Rule 424 on September 26, 2018. As of March 31, 2019, we consumed approximately \$23.6 million of net proceeds from the IPO, primarily to advance ETX2514SUL and ETX0282CPDP through clinical trials and manufacture drug supply, and for working capital and general corporate purposes. We invested the remaining funds received in cash equivalents and other marketable securities in accordance with our investment policy.

### Item 3. Defaults Upon Senior Securities.

Not applicable

### Item 4. Mine Safety Disclosures.

Not applicable

### Item 5. Other Information.

None

**Item 6. Exhibits.**

<u>Exhibit Number</u>	<u>Description</u>
3.1	<a href="#">Amended and Restated Certificate of Incorporation of the Company (incorporated herein by reference to Exhibit 3.1 to the Company's Current Report on Form 8-K (File No. 001-38670), filed with the SEC on September 28, 2018).</a>
3.2	<a href="#">Amended and Restated Bylaws of the Company (incorporated herein by reference to Exhibit 3.2 to the Company's Current Report on Form 8-K (File No. 001-38670), filed with the SEC on September 28, 2018).</a>
4.1	<a href="#">Form of Common Stock Certificate of the Company (incorporated herein by reference to Exhibit 4.1 to the Company's Registration Statement on Form S-1 (File No. 333-226920), filed with the SEC on August 17, 2018).</a>
4.2	<a href="#">Registration Rights Agreement, by and among the Company and certain of its stockholders, dated September 14, 2018 (incorporated herein by reference to Exhibit 4.2 to the Company's Registration Statement on Form S-1 (File No. 333-226920), filed with the SEC on September 18, 2018).</a>
31.1	<a href="#">Certification of Principal Executive Officer Pursuant to Rules 13a-14(a) and 15d-14(a) under the Securities Exchange Act of 1934, as Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.</a>
31.2	<a href="#">Certification of Principal Financial Officer Pursuant to Rules 13a-14(a) and 15d-14(a) under the Securities Exchange Act of 1934, as Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.</a>
32.1*	<a href="#">Certification of Principal Executive Officer and Principal Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.</a>
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 Label Linkbase Document
101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document

+ Indicates a management contract or compensatory plan.

\* Furnished herewith and not deemed to be "filed" for purposes of Section 18 of the Exchange Act, and shall not be deemed to be incorporated by reference into any filing under the Securities Act of 1933, as amended, or the Exchange Act (whether made before or after the date of the Form 10-Q), irrespective of any general incorporation language contained in such filing.

**SIGNATURES**

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

Company Name

Date: May 14, 2019

By: /s/ Manoussos Perros, Ph.D.  
Manoussos Perros, Ph.D.  
President and Chief Executive Officer  
(Principal Executive Officer)

Date: May 14, 2019

By: /s/ Michael Gutch, Ph.D.  
Michael Gutch, Ph.D.  
Chief Financial Officer and Chief Business Officer  
(Principal Financial and Accounting Officer)

**CERTIFICATION PURSUANT TO  
RULES 13a-14(a) AND 15d-14(a) UNDER THE SECURITIES EXCHANGE ACT OF 1934,  
AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, Manoussos Perros, certify that:

1. I have reviewed this Quarterly Report on Form 10-Q of Entasis Therapeutics Holdings 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 14, 2019

By: /s/ Manoussos Perros, Ph.D.  
Manoussos Perros, Ph.D.  
President and Chief Executive Officer  
(Principal Executive Officer)

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**CERTIFICATION PURSUANT TO  
RULES 13a-14(a) AND 15d-14(a) UNDER THE SECURITIES EXCHANGE ACT OF 1934,  
AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, Michael Gutch, certify that:

1. I have reviewed this Quarterly Report on Form 10-Q of Entasis Therapeutics Holdings 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 14, 2019

By: /s/ Michael Gutch, Ph.D.  
Michael Gutch, Ph.D.  
Chief Financial Officer and Chief Business Officer  
(Principal Financial Officer)

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**CERTIFICATION PURSUANT TO  
18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO  
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

Pursuant to the requirement set forth in Rule 13a-14(b) of the Securities Exchange Act of 1934, as amended (the “Exchange Act”), and Section 1350 of Chapter 63 of Title 18 of the United States Code (18 U.S.C. § 1350), Manoussos Perros, President and Chief Executive Officer of Entasis Therapeutics Holdings Inc. (the “Company”), and Michael Gutch, Chief Financial Officer and Chief Business Officer of the Company, each hereby certifies that, to the best of his knowledge:

- (1) The Company’s Quarterly Report on Form 10-Q for the period ended March 31, 2019, to which this Certification is attached as Exhibit 32.1 (the “Periodic Report”), fully complies with the requirements of Section 13(a) or Section 15(d) of the Exchange Act; and
- (2) The information contained in the Periodic Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: May 14, 2019

/s/ Manoussos Perros, Ph.D.

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Manoussos Perros, Ph.D.  
President and Chief Executive Officer  
(Principal Executive Officer)

/s/ Michael Gutch, Ph.D.

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Michael Gutch, Ph.D.  
Chief Financial Officer and Chief Business Officer  
(Principal Financial Officer)

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