URSTADT BIDDLE PROPERTIES INC

Form 10-Q March 10, 2016 United States Securities And Exchange Commission Washington, DC 20549

Form 10-Q

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

For the quarterly period ended January 31, 2016

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 1-12803

Urstadt Biddle Properties Inc.

(Exact Name of Registrant in its Charter)

Maryland 04-2458042

(State or other jurisdiction of incorporation or organization) (I.R.S. Employer Identification Number)

321 Railroad Avenue, Greenwich, CT 06830 (Address of principal executive offices) (Zip Code)

Registrant's telephone number, including area code: (203) 863-8200

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 and posted on its corporate website, if any, every Interactive Data File required to be submitted and posted 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 and post such files). Yes

No

Indicate by check mark whether the Registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act (Check one):

Large accelerated filer Accelerated filer

Non-accelerated filer Smaller reporting company

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

As of March 4, 2016 (latest date practicable), the number of shares of the Registrant's classes of Common Stock and Class A Common Stock outstanding was: 9,504,378 Common Shares, par value \$.01 per share, and 26,465,544 Class A Common Shares, par value \$.01 per share.

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Consolidated Statements of Income (Unaudited) – Three months ended January 31, 2016 and 2015.
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Consolidated Statements of Cash Flows (Unaudited) – Three months ended January 31, 2016 and 2015.
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URSTADT BIDDLE PROPERTIES INC. CONSOLIDATED BALANCE SHEETS

(In thousands, except share data)

ASSETS	January 31, 2016 (Unaudited)	October 31, 2015
Real Estate Investments:		
Real Estate— at cost	\$ 945,665	\$941,690
Less: Accumulated depreciation	(170,583)	(165,660)
	775,082	776,030
Investments in and advances to unconsolidated joint ventures	38,974	39,305
	814,056	815,335
Cash and cash equivalents	3,173	6,623
Restricted cash	2,322	2,191
Tenant receivables	22,838	22,353
Prepaid expenses and other assets	13,984	9,334
Deferred charges, net of accumulated amortization	6,410	5,239
Total Assets	\$ 862,783	\$861,075
LIABILITIES AND STOCKHOLDERS' EQUITY		
Liabilities:		
Revolving credit line	\$ 29,750	\$22,750
Mortgage notes payable and other loans	259,000	260,457
Accounts payable and accrued expenses	6,672	3,438
Deferred compensation – officers	110	155
Other liabilities	15,991	17,542
Total Liabilities	311,523	304,342
Redeemable Noncontrolling Interests	16,881	15,955
Commitments and Contingencies		
Stockholders' Equity:		
7.125% Series F Cumulative Preferred Stock (liquidation preference of \$25 per share);		
5,175,000 shares issued and outstanding	129,375	129,375
6.75% Series G Cumulative Preferred Stock (liquidation preference of \$25 per share);		
3,000,000 shares issued and outstanding	75,000	75,000
Excess Stock, par value \$0.01 per share; 20,000,000 shares authorized; none issued and		
outstanding	-	-
Common Stock, par value \$0.01 per share; 30,000,000 shares authorized; 9,504,378 and	0.6	0.4
9,350,885 shares issued and outstanding	96	94
Class A Common Stock, par value \$0.01 per share; 100,000,000 shares authorized;	265	264
26,465,544 and 26,370,216 shares issued and outstanding	265 432 583	264
Additional paid in capital Cumulative distributions in excess of net income	432,583	431,411
Accumulated other comprehensive (loss)	(101,251) (1,689)	(94,136) (1,230)
Accumulated office completionsive (1055)	(1,009	(1,230)

Total Stockholders' Equity 534,379 540,778
Total Liabilities and Stockholders' Equity \$862,783 \$861,075

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

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URSTADT BIDDLE PROPERTIES INC.

CONSOLIDATED STATEMENTS OF INCOME (UNAUDITED)

(In thousands, except per share data)

	Three Months Ended January 31,	
	2016	2015
Revenues		
Base rents	\$20,072	\$21,011
Recoveries from tenants	6,372	7,146
Lease termination income	42	44
Other income	965	305
Total Revenues	27,451	28,506
Expenses		
Property operating	4,767	5,086
Property taxes	4,623	4,462
Depreciation and amortization	5,688	5,526
General and administrative	2,462	2,268
Provision for tenant credit losses	239	343
Acquisition costs	80	1,768
Directors' fees and expenses	83	114
Total Operating Expenses	17,942	19,567
Operating Income	9,509	8,939
Non-Operating Income (Expense):		
Interest expense	(3,271)	(3,264)
Equity in net income from unconsolidated joint ventures	383	474
Interest, dividends and other investment income	51	15
Net Income	6,672	6,164
Noncontrolling interests:		
Net income attributable to noncontrolling interests	(225)	(153)
Net income attributable to Urstadt Biddle Properties Inc.	6,447	6,011
Preferred stock dividends	(3,570)	(3,894)
Net Income Applicable to Common and Class A Common Stockholders	\$2,877	\$2,117
Basic Earnings Per Share:		
Per Common Share:	\$0.08	\$0.06
Per Class A Common Share:	\$0.09	\$0.06
Diluted Earnings Per Share:		
Per Common Share:	\$0.08	\$0.06
Per Class A Common Share:	\$0.08	\$0.06

Dividends Per Share:

 Common
 \$0.2300
 \$0.2250

 Class A Common
 \$0.2600
 \$0.2550

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

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URSTADT BIDDLE PROPERTIES INC.

CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (UNAUDITED)

(In thousands)

	Three Months Ended January 31, 2016 2015
Net Income	\$6,672 \$6,164
Other comprehensive (loss): Change in unrealized loss on interest rate swaps	(459) (1,714)
Total comprehensive income Comprehensive income attributable to noncontrolling interests	6,213 4,450 (225) (153)
Total Comprehensive income attributable to Urstadt Biddle Properties Inc. Preferred stock dividends	5,988 4,297 (3,570) (3,894)
Total comprehensive income applicable to Common and Class A Common Stockholders	\$2,418 \$403

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

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URSTADT BIDDLE PROPERTIES INC.

CONSOLIDATED STATEMENTS OF CASH FLOWS (UNAUDITED)

(In thousands)

	Three Months Ended	
	January 31,	
	2016	2015
Cash Flows from Operating Activities:	Φ.(. (70	Φ.C. 1.C.4
Net income	\$6,672	\$6,164
Adjustments to reconcile net income to net cash provided by operating activities:	7 (00	5.506
Depreciation and amortization	5,688	5,526
Straight-line rent adjustment	(211)	359
Provision for tenant credit losses	239	343
Restricted stock compensation expense and other adjustments	1,117	•
Deferred compensation arrangement	(45)	` ,
Equity in net (income) of unconsolidated joint ventures	(383)	(474)
Changes in operating assets and liabilities:	(514	(2.700
Tenant receivables	(514)	(3,799)
Accounts payable and accrued expenses	2,776	
Other assets and other liabilities, net	(6,312)	
Restricted Cash	(131)	
Net Cash Flow Provided by Operating Activities	8,896	7,441
Cash Flows from Investing Activities:		
Acquisitions of real estate investments	_	(122,441)
Investments in and advances to unconsolidated joint ventures	_	(17)
Deposits on acquisition of real estate investment	(479)	-
Return of deposits on acquisition of real estate investments	640	627
Improvements to properties and deferred charges	(5,927)	
Distributions to noncontrolling interests	(225)	(1,195)
Distributions from unconsolidated joint ventures	681	397
Net Cash Flow (Used in) Investing Activities	(5,310)	
The cash Tion (esse in) investing their vites	(3,310)	(120,0)1)
Cash Flows from Financing Activities:		
Dividends paid Common and Class A Common Stock	(9,066)	(8,881)
Dividends paid Preferred Stock	(3,570)	(3,894)
Principal repayments on mortgage notes payable	(1,457)	(3,986)
Proceeds from mortgage financings	-	67,680
Redemption of preferred stock	-	(61,250)
Repayment of revolving credit line borrowings	(3,000)	(77,550)
Proceeds from revolving credit line borrowings	10,000	74,500
Net proceeds from the issuance of preferred stock	-	4,650
Sales of additional shares of Common and Class A Common Stock	57	59,846
Net Cash Flow Provided by (Used In) Financing Activities	(7,036)	51,115
Net (Decrease) In Cash and Cash Equivalents	(3,450)	(68,135)
Cash and Cash Equivalents at Beginning of Period	6,623	73,029
Cash and Cash Equivalents at Deginning of Ferrod	0,023	13,02)
Cash and Cash Equivalents at End of Period	\$3,173	\$4,894

Supplemental Cash Flow Disclosures:

Interest Paid \$3,253 \$3,221

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

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URSTADT BIDDLE PROPERTIES INC. CONSOLIDATED STATEMENT OF STOCKHOLDERS' EQUITY (UNAUDITED) (In thousands, except shares and per share data)

7.125%	7.125%	6.75%	6.75%		
Series F	Series F	Series G	Series G		
Preferred	Preferred	Preferred	Preferred	Common	Common
Stock	Stock A	Stock	Stock	Stock	Stock
Issued	mount	Issued	Amount	Issued	Amountass A Common Stock Issued

Balances 5,175,000 \$129,375 3,000,000 \$75,000 9,350,885 \$94

-^-

October

31,

2015

We currently intend to use the net proceeds from this officontinue to discover and develop other protein therapeutics in including funding the costs of operating a public company. So purposes, general and administrative expenses, capital expense property. Although we currently intend to use the net proceed application of the net proceeds. Our failure to apply these fun protein therapeutic candidates.

We are incurring significant increased costs as a result of of substantial time to new compliance initiatives.

As a newly public company, we are incurring significan addition, the Sarbanes-Oxley Act, and rules of the SEC and the requirements on public companies including requiring establic management and other personnel will need to devote a substate regulations have increased and will continue to increase our latime-consuming and costly.

The Sarbanes-Oxley Act requires, among other things, the controls and procedures. In particular, we must perform system to allow management to report on the effectiveness of our integration.

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Section 404 of the Sarbanes-Oxley Act, beginning with our a we will be required to have our independent registered public reporting beginning with our annual report on Form 10-K fol compliance with Section 404 of the Sarbanes-Oxley Act will management efforts. We currently do not have an internal acc appropriate public company experience and technical accoun in a timely manner, or if we or our independent registered pureporting that are deemed to be material weaknesses, the mar investigations by NASDAQ, the SEC or other regulatory auth

Our ability to successfully implement our business plan financial statements. We expect that we will need to continue procedures and controls to manage our business effectively. A enhanced systems, procedures or controls, may cause our ope financial reporting is effective and to obtain an unqualified re Sarbanes-Oxley Act. This, in turn, could have an adverse impaccess the capital markets.

We do not expect to pay any cash dividends for the foreseea

You should not rely on an investment in our common sto dividends to holders of our common stock in the foreseeable operations. In addition, our ability to pay cash dividends is cudebt financing arrangement may contain terms prohibiting or stock. Accordingly, investors must rely on sales of their comrealize any return on their investment. As a result, investors s

Provisions in our restated certificate of incorporation, our a that could discourage an acquisition of us by others, even if by our stockholders to replace or remove our current manage

Our restated certificate of incorporation, amended and redelaying or preventing a change in control of us or changes in provisions that:

authorize "blank check" preferred stock, may contain voting, liquidation, dividend

create a classified board of directors who

specify that special meetings of our stock

prohibit stockholder action by written con

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establish an advance notice procedure for including proposed nominations of person

provide that our directors may be remove

provide that vacancies on our board of dit than a quorum;

specify that no stockholder is permitted to

expressly authorize our board of directors

require supermajority votes of the holders incorporation and amended and restated by

These provisions, alone or together, could delay or preven

In addition, because we are incorporated in the state of I Corporation Law, which limits the ability of stockholders ow

Any provision of our restated certificate of incorporation deterring a change in control could limit the opportunity for could also affect the price that some investors are willing to provide the price that some investors are willing to provide the price that some investors are willing to provide the price that some investors are willing to provide the price that some investors are willing to provide the price that some investors are willing to provide the price that some investors are willing to provide the price that some investors are willing to provide the price that some investors are willing to provide the price that some investors are willing to provide the price that some investors are willing to provide the price that some investors are willing to provide the price that some investors are willing to provide the price that some investors are willing to provide the price that some investors are willing to provide the price that some investors are willing to provide the price that some investors are will be price that some investors are will be price that the price that some investors are will be price that the price that

Our restated certificate of incorporation designates the Cou Delaware as the exclusive forum for certain types of actions stockholders' ability to obtain a favorable judicial forum for

Our restated certificate of incorporation provides that, so federal court within the State of Delaware will be exclusive for action asserting a claim of breach of a fiduciary duty owed by action asserting a claim against us arising pursuant to any profincorporation or our amended and restated by-laws, or (4) any doctrine. Any person or entity purchasing or otherwise acquire to have consented to the provisions of our restated certificate stockholder's ability to bring a claim in a judicial forum that if which may discourage such lawsuits against us and our direct our restated certificate of incorporation inapplicable to, or unproceedings, we may incur additional costs associated with rebusiness and financial condition.

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Cautionary Note

This prospectus contains forward-looking statements. For performance. Instead, they are based on our current beliefs, e strategies, our clinical results and other future conditions. The "may", "plan", "predict", "project", "target", "potential", "will terms or other similar expressions are intended to identify for identifying words.

The forward-looking statements in this prospectus include

our plans to develop and commercialize of commercialize sotatercept and ACE-536; the potential benefits of strategic partners arrangements;

the timing of results of our ongoing clinic

the timing of, and our and Celgene's abilicandidates;

the rate and degree of market acceptance

our ability to quickly and efficiently iden

our commercialization, marketing and ma

our intellectual property position; and

our estimates regarding expenses, future resources and our need for additional fina

We may not actually achieve the plans, intentions or expundue reliance on our forward-looking statements. Actual residisclosed in the forward-looking statements we make. We haprospectus, particularly in the "Risk Factors" section, that we forward-looking statements that we make. Our forward-looking dispositions, joint ventures or investments we may make.

The forward-looking statements in this prospectus repreand developments will cause our views to change. However, future, we have no current intention of doing so except to the forward-looking statements as representing our views as of an

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The net proceeds of the sale of 2,035,000 shares of composfering price of \$49.14 per share (the last reported price of odeducting underwriting discounts and commissions and estimpurchase additional shares of common stock in full, we estim underwriting discounts and commissions and estimated offering price of \$49.14 per share (the last reported price of oincrease or decrease our net proceeds by approximately \$1.9 this prospectus, remains the same and after deducting the undus.

We intend to use the net proceeds from this offering as f

approximately \$57.0 million to continue of dalantercept in combination with either and obtaining the supply of dalantercept is

approximately \$8.0 million to conduct cli ACE-083;

approximately \$15.0 million to continue candidates; and

use the remainder for general and admini programs, early-stage research and developurposes.

The expected use of the net proceeds from this offering which could change in the future as our plans and business conumerous factors, including the ongoing status of and results development efforts and any unforeseen cash needs. As a rest offering. Although we may use a portion of the net proceeds candidates, technologies, compounds, other assets or complet to do so.

Pending the use of the proceeds from this offering, we in securities, certificates of deposit or government securities.

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MARKET PI

Our common stock has been listed on The NASDAQ GI there was no public market for our common stock. The follow of our common stock as reported on The NASDAQ Global M

Year ended December 31, 2013:	J	Hig
Third quarter(1)	\$	2
Fourth quarter	\$	4
Year ending December 31, 2014:		
First quarter (through January 17, 2014)	\$	5

(1)

Represents the period from September 19, 2013, the Market after the pricing of our initial public offerin

A recent reported closing price for our common stock is transfer agent and registrar for our common stock. As of Janu

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We have never declared or paid cash dividends on our cearnings, if any, to fund the development and expansion of or future. In addition, our ability to pay cash dividends is curren financing arrangement may contain terms prohibiting or limit Any future determination to pay dividends will be made at the

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The following table sets forth our cash and cash equivalent

on an actual basis;

on an as adjusted basis to reflect the sale price of \$49.14 per share (the last reporte 2014), after deducting underwriting disco

You should read this information together with our audit the information set forth under the heading "Selected Financi Results of Operations".

Cash and cash equivalents

Notes payable, net of current portion Warrants to purchase common stock Stockholders' equity:

Undesignated preferred stock, \$0.001 par value: 25,000,000 soutstanding

Common stock, \$0.001 par value; 175,000,000 shares authorissued and outstanding, actual, and 30,104,579 shares issued Additional paid-in capital Accumulated deficit

Total stockholders' equity

Total capitalization

(1)

A \$1.00 increase (decrease) in the assumed public of The NASDAQ Global Market on January 17, 2014 equivalents and total stockholders' equity by approximate the cover of this prospectus, remains the same at expenses payable by us.

The actual and as adjusted information set forth in a stock options outstanding as of September 30, 2013 common stock issuable upon the exercise of warrar weighted-average exercise price of \$6.56 per share. Equity Incentive Plan as of September 30, 2013, an Employee Stock Purchase Plan as of September 30

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SELE

The information set forth below should be read in conjunt Results of Operations" section of this prospectus and with our selected financial data in this section are not intended to replastatements and related notes included elsewhere in this prospectus.

The selected statements of operations and comprehensive balance sheet data as of December 31, 2011 and 2012 have be prospectus. The selected statements of operations and comprehensive and the balance sheet data as of September 30, 2013 have been prospectus. In our opinion, these unaudited financial statement and contain all adjustments, consisting only of normal and rehistorical results for any prior period are not necessarily indicate not necessarily indicate not necessarily indicative of results to be expected for a feet of the selected statements of operations and comprehensive balance sheet data as of December 31, 2011 and 2012 have been prospectus.

(in thousands, except per share data)

Revenue: Collaboration revenue: License and milestone Cost-sharing, net Contract manufacturing

Total revenue

Costs and expenses: Research and development General and administrative Cost of contract manufacturing revenue

Total costs and expenses

Income (loss) from operations Total other expense, net

Net income (loss)

Comprehensive income (loss)

Net income (loss) per share applicable to common stockholde Basic

Diluted

Weighted-average number of common shares used in compute per share applicable to common stockholders

Basic

Diluted

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(in thousands)

Balance Sheet Data: Cash and cash equivalents

Total assets

Total current liabilities

Long term deferred revenue

Long-term notes payable

Warrants to purchase redeemable convertible preferred stock

Warrants to purchase common stock

Redeemable convertible preferred stock

Total stockholder's (deficit) equity

(1)

See Note 2 within the notes to our financial statemed calculate basic and diluted net income (loss) per co

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MANAGEMENT FINANCIAL CONDI

You should read the following discussion and analysis of "Selected Financial Data" and our financial statements and of this prospectus contain forward-looking statements that in expectations and intentions. Our actual results could differ me could cause or contribute to such differences include, but are

We are a clinical stage biopharmaceutical company focus therapeutics for cancer and rare diseases. Our research focuses superfamily, a large and diverse group of molecules that are leaders in understanding the biology of the TGF- β superfacoupling our discovery and development expertise, including engineering and manufacturing capabilities, we have built a hypotein therapeutic candidates with novel mechanisms of actisignificantly improve clinical outcomes for patients with candidates.

We have three internally discovered protein therapeutic trials, focused on cancer and rare diseases. Our two most adv cell production through a novel mechanism. Together with ou developing sotatercept and ACE-536 to treat anemia and asso (MDS), red blood cell disorders that are generally unresponsi candidate, dalantercept, is designed to inhibit blood vessel for the dominant class of cancer drugs that inhibit blood vessel for developing dalantercept primarily for use in combination with

We are developing sotatercept and ACE-536 through ou became responsible for paying 100% of worldwide development, regulatory and commercial milestone payments we will receive a royalty on net sales in the low-to-mid 20% approved, for which our commercialization costs will be entiretain worldwide rights to this program.

As of September 30, 2013, our operations have been prin \$86.8 million in net proceeds from our initial public offering, payments, milestones, and net research and development pay

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We expect to continue to incur significant expenses and expenses will increase substantially in connection with our or

conduct clinical trials for dalantercept;

continue our preclinical studies and poter candidates;

continue research activities for the discover manufacture protein therapeutics for our seek regulatory approval for our protein to

We will not generate revenue from product sales unless approval for one or more of our protein therapeutic candidate uncertainty. All current and future development and commercegulatory approval for dalantercept or any future protein the related to product sales, marketing, manufacturing and distributed our operations through the sale of equity, debt financing be unable to raise additional funds or enter into such other are enter into such other arrangements as, and when, needed, we commercialization of one or more of our protein therapeutics

operate as a public company.

Our ability to generate product revenue and become propoducts. We expect to incur losses for the foreseeable future seek regulatory approvals for, our protein therapeutics and ponumerous risks and uncertainties associated with product dev

Fina

Revenue

Collaboration Revenue

We have not generated any revenue from the sale of pro revenue, which includes license and milestone revenues and opartners for the development and commercialization of our procollaboration partners for expenses incurred by us for research collaboration agreements. Cost sharing revenue is recognized reimburse collaborators for costs incurred in connection with revenue.

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Contract Manufacturing Revenue

We have generated contract manufacturing revenue in the manufacturing revenue consists of revenue received for productions.

Costs and Expenses

Research and Development Expenses

Research and development expenses consist primarily of candidates, which include:

direct employee-related expenses, includi and development personnel;

expenses incurred under agreements with our clinical trials;

the cost of acquiring and manufacturing p

allocated facilities, depreciation, and othe supplies;

expenses associated with obtaining and m

costs associated with preclinical activities

Research and development costs are expensed as incurred the progress to completion of specific tasks using information

We cannot determine with certainty the duration and corcandidates or if, when, or to what extent we will generate reveandidates for which we or any partner obtain regulatory appears of our protein therapeutic candidates. The duration, costs will depend on a variety of factors, including:

the scope, rate of progress, and expense of development activities;

future clinical trial results;

potential changes in government regulation

the timing and receipt of any regulatory a

A change in the outcome of any of these variables with a significant change in the costs and timing associated with the another regulatory authority were to require us to conduct clin completion of the clinical development of protein therapeutic could be required to expend significant additional financial results.

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From inception through September 30, 2013, we have in our research and development expenses for the foreseeable furthe discovery and development of preclinical protein theraped dalantercept. Beginning January 1, 2013, expenses associated reimbursements are recorded as revenue. Of the Phase 2 clinical expensing the costs of six clinical trials of ACE-536 and dala

We manage certain activities such as clinical trial operat toxicology studies through third-party CROs. The only costs provided to us by CROs, manufacturing of preclinical and cli do not assign or allocate to individual development programs of preclinical research and studies. Our external research and which development was suspended in April 2013) during the 2012 and 2013 are as follows:

(in thousands)		20
(in thousands) Sotatercept(1)	\$	20
ACE-536(1)	_	
Dalantercept		
ACE-031(2)		
Total direct research and development expenses		
Other expenses(3)		2
Total research and development expenses	\$	3

- (1)

 Beginning January 1, 2013, expenses associated wi reimbursements are recorded as revenue and are pro-
- (2) In April 2013, we and Shire AG, which we refer to terminated our collaboration agreement, effective a
- Other expenses include unallocated employee and of

Contract Manufacturing Expenses

Contract manufacturing expenses consist primarily of copartners. The costs generally include employee-related expendepreciation, utilities, facility maintenance and insurance. We

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General and Administrative Expenses

General and administrative expenses consist primarily o travel expenses for our employees in executive, operational, f including directors' fees and professional fees for accounting

Since the completion of our initial public offering in Ser regulatory and tax-related services associated with maintainir requirements, director and officer insurance premiums, and in our general and administrative expenses will increase in the f development and potential commercialization of our protein the therapeutic candidate appears likely, to the extent that we are anticipate an increase in payroll and related expenses as a res

Other Expense, Net

Other expense, net consists primarily of interest expense and the re-measurement gain or loss associated with the chan

We use the Black-Scholes option pricing model to estim pricing model, in part, on subjective assumptions, including s preferred stock or common stock underlying the warrants.

Critical Accounting Pol

Our management's discussion and analysis of our finance have been prepared in accordance with U.S. generally accepted make estimates and judgments that affect the reported amount liabilities in our financial statements. On an ongoing basis, we recognition, accrued expenses and stock-based compensation of our common stock and the fair value of our liability-classist on historical experience, known trends and events, and various results of which form the basis for making judgments about the sources. Actual results may differ from these estimates under

While our significant accounting policies are described i prospectus, we believe the following accounting policies to b financial statements.

Revenue Recognition

We have primarily generated revenue through collaboration of our protein therapeutics.

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We recognize revenue in accordance with Accounting S revenue is recognized for each unit of accounting when all of (2) delivery has occurred or services have been rendered; (3)

Amounts received prior to satisfying the revenue recogn expected to be recognized as revenue within the 12 months for and amounts not expected to be recognized as revenue within net of current portion.

Under collaboration agreements, we may receive payme development events, research and development reimbursement with the deliverables contained in the arrangements which may and development activities performed for the collaboration paymeclinical material.

Effective January 1, 2011, we adopted Accounting Stand which amends ASC Topic 605-25, *Revenue Recognition Mu* existing agreements that are significantly modified after Janu

The application of the multiple element guidance require individual deliverables, and whether such deliverables are septions considered separate units of accounting provided that: (1) the arrangement includes a general right of return relative to the opposable and substantially in our control. In determining the deliverables have stand-alone value, based on the consideration research, manufacturing and commercialization capabilities of general marketplace. In addition, we consider whether the conviction of the remaining element(s), whether the variety of the remaining element(s) are other vendors that can provide the undelivered element(s)

Arrangement consideration that is fixed or determinable method, and the applicable revenue recognition criteria, as de the appropriate period or pattern of recognition. We determin vendor-specific objective evidence (VSOE) of selling price, i management's best estimate of selling price (BESP) if neither typically use BESP to estimate the selling price of the deliver In developing the BESP for a unit of accounting, we consider that were contemplated in negotiating the agreement with the evaluating whether changes in the key assumptions used to deconsideration between multiple units of accounting.

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Our agreements may contain options which provide the substantive if, at the inception of the arrangement, we are at r Factors that we consider in evaluating whether an option is su collaborator might obtain from the arrangement without exercively will be exercised. For arrangements under which an option is deliverable at the inception of the arrangement and the associate option is not priced at a significant and incremental disconsubstantive or if an option is priced at a significant and incremental disconsubstantive or if an option is priced at a significant and incremental disconsubstantive or if an option is priced at a significant and incremental disconsubstantive or if an option is priced at a significant and incremental disconsubstantive or if an option is priced at a significant and incremental disconsubstantive or if an option is priced at a significant and incremental disconsubstantive or if an option is priced at a significant and incremental disconsubstantive or if an option is priced at a significant and incremental disconsubstantive or if an option is priced at a significant and incremental disconsubstantive or if an option is priced at a significant and incremental disconsubstantive or if an option is priced at a significant and incremental disconsubstantive or if an option is priced at a significant and incremental disconsubstantive or if an option is priced at a significant and incremental disconsubstantive or if an option is priced at a significant and incremental disconsubstantive or if an option is priced at a significant and incremental disconsubstantive or if an option is priced at a significant and incremental disconsubstantive or if an option is priced at a significant and incremental disconsubstantive or if an option is priced at a significant and incremental disconsubstantive or if an option is priced at a significant and incremental disconsubstantive or if an option is priced at a significant and incremental disconsubstantive or if an option is priced at a significant and incremental d

We typically receive up-front, non-refundable payments development agreement. When we believe the license to our attributed to the license upon delivery. When we believe the license to be provided in the arrangement, we generally contractual or estimated performance period, which is typical continually evaluate these periods, and will adjust the period

Research and development funding is recognized as reversible principal under our collaboration arrangements, we record particle cost-sharing revenue. To the extent that we reimburse the collaboration.

We periodically review the basis for our estimates, and visignificantly increase or decrease the amount of revenue recojudgments which affected the pattern of revenue recognition. and development services. We are recognizing revenue over which was estimated to end in December 2014, the expected collaboration. Another instance relates to our arrangement with the development of ACE-031 or back-up compounds and Shi

In addition to up-front payments and research and develoupon achievement of a predefined objective. At the inception milestone is substantive and at-risk. This evaluation includes entity's performance to achieve the milestone, or the enhance at least in part from the entity's performance to achieve the m consideration is reasonable relative to all of the deliverables a scientific, regulatory, commercial and other risks that must be required to achieve the respective milestone, and whether the in the arrangement in making this assessment. On the milestone

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achievement date, assuming all other revenue recognition crit payment as license and milestone revenue. For milestones that recognize the milestone payment over the remaining service

Sales and commercial milestones and royalties will be re

Clinical Trial Accruals and Related Expenses

We accrue and expense costs for clinical trial activities pestimates made as of the reporting date of the work complete with CROs and clinical trial sites. Some CROs invoice us on expense is recorded as services are rendered. We determine the discussion with internal personnel and outside service provide each reporting period, pursuant to contracts with numerous of the significant factors considered in estimating accruals included to setting up clinical trial sites for participation in the trial while the set-up periods vary from one arrangement to anoth include clinical site identification, institutional review board, and pre-study site visits. Clinical trial site costs related to pati

Stock-Based Compensation

We account for our stock-based awards in accordance w requires all stock-based payments to employees, including gr recognized in the statements of operations and comprehensive awards subject to service-based vesting conditions over the resubject to both performance and service-based vesting conditions it is probable that the performance condition will be achieved Stock options granted to non-employees are subject to period recognized using an accelerated recognition method.

We estimate the fair value of our stock-based awards to requires the input of highly subjective assumptions, including risk-free interest rate and (4) expected dividends. Due to the public offering in September 2013, and resulting lack of com expected volatility on the historical volatility of a group of sin companies with characteristics that we believe are comparable with historical share price information sufficient to meet the cusing the daily closing prices for the selected companies' share awards. We will continue to apply this process until a sufficient

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information regarding the volatility of our own stock price be using the "simplified" method, whereby, the expected life equal The risk-free interest rates for periods within the expected life the options were granted.

We also estimate forfeitures at the time of grant, and rev We use historical data to estimate pre-vesting option forfeitur recorded as a cumulative adjustment in the period the estimat statements is based on awards that are ultimately expected to

We have computed the estimated fair value of stock opti

			Ni
	Year Ended December 31,		Se
	2011	2012	201
Expected volatility	66.0%	69.0%	66
Expected term (in years)	6.0	6.0	ϵ
Risk-free interest rate	1.1%	0.9%	(
Expected dividend yield			

Stock-based compensation totaled approximately \$1.2 m ended September 30, 2013. As of September 30, 2013, we hat estimates, which is expected to be recognized over a weighter impact of our stock-based compensation expense for stock-based to the potential increases in the value of our common stock at

The following table summarizes by grant date the number through the date we became a public company, as well as the share of our common stock on the date of grant:

Date of Grant	Number of Shares Subject to Awards	Exercise I Per Shar
March 1, 2012	22,750	\$
June 7, 2012	238,500	\$
September 6, 2012	20,250	\$
November 13, 2012	250,000	\$
December 12, 2012	190,500	\$
June 6, 2013	8,750	\$

(1)

Due to the absence of a public market for our comm
fair value of common stock and represents the deter
date of each grant, taking into consideration various

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(2)

The fair value of common stock at the grant date w reporting purposes, as discussed more fully below.

Determination of the Fair Value of Common Stoc

For grants made prior to the consummation of our initial board of directors determined, the fair value of our common specialist. Due to the absence of a public market for our communication stock at various dates considering contemporaneous valuation. Certified Public Accountants Practice Aid, *Valuation of Prive* Practice Aid. We engaged the valuation firm to perform contact 2013 and June 6, 2013. In conducting the contemporaneous valuation to be relevant for each valuation conducted, including at each valuation date. Within the contemporaneous valuation significant factors included:

the prices of our preferred stock sold to o preferences and privileges of our preferre preferences of our preferred stock;

our results of operations, financial position

the composition of, and changes to, our n

the lack of liquidity of our common stock

our stage of development and business str

the achievement of enterprise milestones,

the valuation of publicly traded companies mergers and acquisitions of peer companies

any external market conditions affecting

the likelihood of achieving a liquidity ever offering, or IPO, or a sale of our company

the state of the IPO market for similarly s

The dates of our contemporaneous valuations have not a exercise prices of the stock options set forth in the table abov contemporaneous valuations of our common stock and our as of the grant date. The additional factors considered when determined valuation and the grant dates included our stage of research a business conditions.

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There are significant judgments and estimates inherent is estimates include assumptions regarding our future operating company valuations associated with such events, and the determade different assumptions, our stock-based compensation estockholders could have been different.

In early May 2013, based on the progress of our clinical biopharmaceutical IPOs, our board of directors determined at registration statement for an IPO. We selected underwriters at the probability of an early IPO scenario and therefore in connunction December 31, 2012, we retrospectively re-assessed the estimate between the contemporaneous valuations where there were st market conditions, progress made in our development program

Common Stock Valuation Methodologies

These contemporaneous and retrospective valuations we several valuation approaches for setting the value of an enterprise to its common stock. precedent transaction methodologies, based on inputs from contransactions, to estimate the enterprise value of our company.

Methods Used to Allocate Our Enterprise Value to

In accordance with the Practice Aid, we considered the capital stock to determine the fair value of our common stock

Current Value Method. Under the curren allocated to the various series of preferred conversion values, whichever is greatest.

Option Pricing Method. Under the option prices based on the liquidation preference common stock are inferred by analyzing

Probability-Weighted Expected Return M value per share based on the probability-the possible outcomes available to us, as

We used the PWERM to allocate the enterprise values to common stock is estimated based upon an analysis of future v is based, in part, on the plans of our board of directors and ma probability-weighted present value of expected future investment.

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possible outcomes available to us, as well as the economic an estimated using a probability-weighted analysis of the presen stockholder exit or liquidity event scenarios, either through (liquidation preference of the preferred stockholders; or (3) a spreferred stockholders.

The individual stockholder exit or liquidity scenarios co and external, present as of each valuation date. The future prosale scenarios were estimated by application of the market ap

valuations of companies prior to the receivaluation date;

estimated third-party sale values based or

expected dates for a future IPO or sale of

The present values of our common stock under each sceprobability-weighting those present values based on our estin

Finally, the estimated fair value of our common stock w our common stock is unregistered, and the holder of a minori our company. Our estimate of the appropriate discount for lac the Practice Aid. We selected a smaller discount after taking companies.

March 1, 2012 Common Stock Valuation

We performed a retrospective valuation of our common that date. For the retrospective valuation at March 1, 2012, si each scenario, timing to the liquidity event, discount rate and in assessing these key valuation assumptions included those r

	IPO
March 1, 2012 Major Assumptions	Short Term I
Probability of scenario	20%
Discount for lack of marketability	
Timeline to liquidity (in years)	1.8
Discount rate common stock	30%

In applying the market approach to estimate our future e assumed that a liquidity event would occur in 1.8 years under development pipeline and our collaborations as of the valuati pre-money IPO market data for transactions between the third value in the long-term scenario

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was based on consideration of the high-end of the observed rawould continue their positive clinical progression.

In applying the market approach to estimate our aggregation was assumed that a liquidity event would occur in 2.5 years futilized in the low-case scenario considered the median of the the high-case scenario was based on the comparable transaction assumed we would make significant progress and achieve cer consummated, including assumptions that our three most advor more additional compounds would enter Phase 1 trials and activities.

In the sale at a price below liquidation preference scenar at a value that would not allow the preferred stockholders to a stockholders.

Under all the exit scenarios considered in the PWERM, enterprise valuations, a risk-adjusted discount rate of 30.0% be discount for lack of marketability which was 0% in the IPO s rate was based on consideration of the weighted-average cost risk factors, the venture capital rates of return detailed in the pertinent to estimating the discount rate. The resulting value, 2012, was \$5.80 per share.

June 7, 2012 and September 6, 2012 Common Stock

We performed a retrospective valuation of our common that date. For the retrospective valuation at June 7, 2012, sign scenario, timing to the liquidity event, discount rate and discovery valuation assumptions included those noted in the follow

June 7, 2012 Major Assumptions	IPO Short Term	Lon
Probability of scenario	25%	
Discount for lack of marketability		
Timeline to liquidity (in years)	1.5	
Discount rate common stock	30%	

In applying the market approach to estimate our future e assumed that a liquidity event would occur in 1.5 years under development pipeline and our collaborations as of the valuati pre-money IPO market data for transactions between the third value in the long-term scenario was based on consideration of advanced development projects would continue their positive

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In applying the market approach to estimate our aggregation was assumed that a liquidity event would occur in 2.5 years frutilized in the low-case scenario considered the median of the the high-case scenario was based on the comparable transaction assumed we would make significant progress and achieve certain consummated, including assumptions that our three most advort more additional compounds would enter Phase 1 trials and

In the sale at a price below liquidation preference scenar at a value that would not allow the preferred stockholders to a stockholders.

Under all the exit scenarios considered in the PWERM, enterprise valuations, a risk-adjusted discount rate of 30% bar discount for lack of marketability which was decreased to 0% events. The risk-adjusted discount rate was based on consider companies adjusted for company specific risk factors, the ver quantitative and qualitative factors considered pertinent to est value of our common stock as of June 7, 2012, was \$6.12 per

The estimated per share fair value of our common stock March 1, 2012 valuation of \$5.80 per share primarily due to t

timing to a prospective liquidity event ha

likelihood of an IPO had increased.

As a result of the fact that the number of stock option gr valuation to determine the retrospective fair value of our com

November 13, 2012 and December 12, 2012 Comm

We performed a retrospective valuation of our common as of that date. For the retrospective valuation at November 1 occurrence of each scenario, timing to the liquidity event, dis circumstances considered in assessing these key valuation ass

November 13, 2012 Major Assumptions	IPO Short Term
Probability of scenario	30%
Discount for lack of marketability	
Timeline to liquidity (in years)	1.0
Discount rate common stock	30%

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In applying the market approach to estimate our future e assumed that a liquidity event would occur in 1.0 years under improvement in IPO market conditions for companies in our valuation date. The selected enterprise value in the short-term third quartile and the maximum of the observed range. The seconsideration of the high-end of the observed range of transactheir positive clinical progression.

In applying the market approach to estimate our aggregation was assumed that a liquidity event would occur in 2.0 years futilized in the low-case scenario considered the median of the the high-case scenario was based on the comparable transaction assumed we would make significant progress and achieve cere consummated, including assumptions that our three most advort more additional compounds would enter Phase 1 trials and

In the sale at a price below liquidation preference scenar at a value that would not allow the preferred stockholders to a stockholders.

Under all the exit scenarios considered in the PWERM, enterprise valuations, a lower risk-adjusted discount rate of 2 common stock, and a discount for lack of marketability which events. The risk-adjusted discount rate was based on consider companies adjusted for company specific risk factors, the ver quantitative and qualitative factors considered pertinent to est value of our common stock as of November 13, 2012, was \$7

The estimated per share fair value of our common stock from the June 7, 2012 retrospective valuation estimate of \$6.

timing to a prospective liquidity event ha

increased likelihood of an IPO; and

initiation of a Phase 2 clinical trial of dala

As a result of the fact that there were no material change November 13, 2012 valuation to determine the exercise price

March 31, 2013 Common Stock Valuation

We performed a contemporaneous valuation of our comas of that date. For the valuation at March 31, 2013, significant scenario, timing

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to the liquidity event, discount rate and discount for lack of n valuation assumptions included those noted in the following t

	IPO	
March 31, 2013 Major Assumptions	Short Term Lo)1
Probability of scenario	50%	
Discount for lack of marketability		
Timeline to liquidity (in years)	0.6	
Discount rate common stock	25%	

In applying the market approach to estimate our future e assumed that a liquidity event would occur in 7 months under our development pipeline and our collaborations as of the val the pre-money IPO market data for transactions between the enterprise value in the long-term scenario was based on consi our most advanced development projects would continue their

In applying the market approach to estimate our aggregative previously, it was assumed that a liquidity event would occur selected enterprise value utilized in the low-case scenario conselected enterprise value for the high-case scenario was based the observed range. We assumed we would make significant pipeline by the time a trade sale was consummated, including their positive clinical progression, one or more additional connominated for pre-IND activities.

In the sale at a price below liquidation preference scenar at a value that would not allow the preferred stockholders to a stockholders.

Under all the exit scenarios considered in the PWERM, enterprise valuations, a lower risk-adjusted discount rate of 2 common stock, and a discount for lack of marketability which liquidity events. The risk-adjusted discount rate was based on companies adjusted for company specific risk factors, the ver quantitative and qualitative factors considered pertinent to est value of our common stock as of March 31, 2013, was \$8.68

The estimated per share fair value of our common stock the November 13, 2012 valuation of \$7.88 per share primarily

NASDAQ Biotechnology index increasing

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improved capital market conditions for bi and their valuations:

increased likelihood of our board of direc

decreased timing to a prospective liquidit

initiation of several Phase 2 clinical trials

June 6, 2013 Common Stock Valuation

We performed a contemporaneous valuation of our com of that date.

For the contemporaneous valuation at June 6, 2013, sign scenario, timing to the liquidity event, discount rate and discoussessing these key valuation assumptions included those not

	IPO
June 6, 2013 Major Assumptions	Short Term
Probability of scenario	60%
Discount for lack of marketability	
Timeline to liquidity (in years)	0.4
Discount rate common stock	25%

In applying the market approach to estimate our future e assumed that a liquidity event would occur in 5 months under our development pipeline and our collaborations as of the val the pre-money IPO market data for transactions between the enterprise value in the long-term scenario was based on consi our most advanced development projects would continue their

In applying the market approach to estimate our aggregate previously, it was assumed that a liquidity event would occur selected enterprise value utilized in the low-case scenario conselected enterprise value for the high-case scenario was based the observed range. We assumed we would make significant pipeline by the time a trade sale was consummated, including their positive clinical progression, one or more additional connominated for pre-IND activities.

In the sale at a price below liquidation preference scenar at a value that would not allow the preferred stockholders to a stockholders.

Under all the exit scenarios considered in the PWERM, enterprise valuations, a lower risk-adjusted discount rate of 2 common stock, and a discount for lack of marketability which

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other assumed liquidity events. The risk-adjusted discount rat biotechnology companies adjusted for company specific risk analysis of other quantitative and qualitative factors consider the estimated fair value of our common stock as of June 6, 20

The estimated per share fair value of our common stock March 31, 2013 valuation of \$8.68 per share primarily due to

timing to a prospective liquidity event ha

NASDAQ Biotechnology (^NBI) index is

improved capital market conditions for bi offerings and their initial public offering

the occurrence of the organizational meet

received two FDA Orphan Designations

initiated Phase 2 trial of ACE-536 in with *Initial public offering price*

The initial public offering price of \$15.00 per share was comparison, our estimate of the fair value of our common sto the initial public offering price was not derived using a forma underwriters. Among the factors that were considered in setti

an analysis of the typical valuation range

the general condition of the securities ma stock of generally comparable companies

an assumption that there would be a recepand

an assumption that there would be sufficithe initial public offering.

The initial public offering price reflected a significant in believe the difference is due to the following factors:

The contemporaneous valuation prepared offering with an anticipated completion d However, the consideration of different so offering price and the valuation as of June

Advancement in the dose escalation phas β-thalassemia;

Advancement in the treatment of patients cell carcinoma of the head and neck;

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Improved capital market conditions for conferings by such companies and in the intheir most recent pre-IPO equity financin

The initial offering price necessarily assustock had been created and that our preferoffering and, therefore, excluded the manimitial public offering, the superior rights the contemporaneous valuations over the the IPO scenarios and 5% for the trade sa

In the public markets we believe there are certain of our clinical assets than the valu will in fact be the case. As described abortair value of our common stock and this roffering price. The initial public offering determined by negotiation between us an of June 6, 2013 was not a factor in setting

The price that investors were willing to p not been expressly considered in our prio able to quantify.

There are significant additional judgments and estimates include assumptions regarding our future performance, include determination of the appropriate valuation methods. If we had been different. The foregoing valuation methodologies are no completion of our initial public offering. We cannot make assure cautioned not to place undue reliance on the foregoing valuation.

Warrants to Purchase Preferred Stock and Common Stock

As of September 30, 2013, we had warrants outstanding 857,586 shares of our common stock contain a provision requirement securities convertible into or exercisable for common stock, a requires the warrants to be classified as liabilities and measure income (expense). The fair value of the warrants to purchase warrants to purchase common stock are classified as liabilities estimated that there would be up to three future financing ever modifications to the warrant liabilities are recorded in earning estimating the fair value of our warrant liabilities include the estimated fair value of the stock underlying the warrant, and the stock underlying the stock warrant, and the stock warrant warrant in the stock warrant.

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Additionally, prior to the completion of our initial public Series B, Series C-1 and Series D-1 preferred stock. Freestanclassified as liabilities and recorded at fair value regardless of redemption. The warrants were subject to re-measurement at of other income (expense), net. We measured the fair value of model. In connection with the closing of our initial public off Preferred Stock, Series C-1 Preferred Stock, and Series D-1 Ficlassified as a component of equity and are no longer subject unchanged.

Emerg

The Jumpstart our Business Startups Act of 2012, or the an extended transition period to comply with new or revised a of this provision and, as a result, we will comply with new or opt out of the extended transition period under the JOBS Act

Comparison of the Nine Months Ended September 30, 20

<i>a</i>	Nine Months En September 3		
(in thousands)		2012	2
Revenue:			
Collaboration revenue:			
License and milestone	\$	7,226	\$
Cost-sharing, net		4,043	
Total revenue		11,269	
Costs and expenses:			
Research and development		25,646	
General and administrative		6,318	
Total costs and expenses		31,964	
Income (loss) from operations		(20,695)	
Other income (expense), net		(1,508)	
Net income (loss)	\$	(22,203)	\$

Revenue. We recognized revenue of \$45.7 million in the period in 2012. The \$34.4 million increase was primarily due collaboration for the first patient dosed in a Phase 2 trial in A Shire ended our collaboration as of June 30, 2013. The remainer revenue from Celgene of \$6.9 million due to Celgene assuming January 1, 2013, and recognition of \$0.2 million deferred revenue from Celgene assuming the property of t

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in net cost-sharing revenue from Shire of \$1.3 million due to

The following table shows revenue from all sources for

		Nine Months Ended September 30,			
(in thousands)		2012		2013	
Collaboration revenue:					
Celgene:					
License and milestone	\$	1,491	\$	11,7	
Cost-sharing, net		2,106		8,9	
Total Celgene		3,597		20,6	
Shire:					
License and milestone		5,735		24,3	
Cost-sharing, net		1,937		7	
Total Shire		7,672		25,0	
Total collaboration revenue		11,269		45,7	
Total revenue	\$	11,269	\$	45,7	

Research and Development Expenses. Research and of 2013, compared to \$25.6 million in the same period in 2012. with clinical activity totaling \$2.8 million, partially offset by

General and Administrative Expenses. General and at 2013, compared to \$6.3 million in the same period in 2012. T services in connection with our litigation with the Salk Institute connection with business development activities totaling \$2.3

Other Expense, Net. Other expense, net was \$14.2 mi same period in 2012. This \$12.7 million increase was primari warrants of \$12.0 million and an increase in interest expense 2013.

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Comparison of Years Ended December 31, 2011 and 2012

		Year
(in thousands)		Decei 2011
Revenue:		2011
Collaboration revenue:		
License and milestone	\$	74,406
Cost-sharing, net	Ψ	4,760
Contract manufacturing		1,745
Total revenue		80,911
Costs and operating expenses:		
Research and development		32,713
General and administrative		8,142
Cost of contract manufacturing revenue		1,500
Total costs and expenses		42,355
Income (loss) from operations		38,556
Other expense, net		(2,290)
Net income (loss)	\$	36,266

Revenue. We recognized revenue of \$15.3 million for December 31, 2011. The \$65.6 million decrease in revenue in revenue, because during 2011, upon signing the ACE-536 Ce payments and deferred revenue totaling \$54.8 million. During Alkermes collaboration. Also, in 2012 we did not recognize a license and milestone revenue was offset by higher 2012 cost We also recognized \$1.7 million for a contract manufacturing

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The following table shows revenue from all sources for

(in thousands) Collaboration revenue:		Year Ended December 31, 2011 20			
Celgene:	Φ.	60.605	Φ.		
License and milestone	\$	63,607	\$		
Cost-sharing, net		(121)			
Total Celgene Shire:		63,486			
License and milestone		8,392			
Cost-sharing, net		4,148			
Total Shire Alkermes:		12,540]		
License and milestone		2,407			
Cost-sharing, net		733			
Total Alkermes		3,140			
Total collaboration revenue		79,166	1		
Contract manufacturing revenue		1,745			
Total revenue	\$	80,911	\$ 1		

Research and Development Expenses. Research and compared to \$32.7 million for the year ended December 31, 2 to preclinical animal toxicology studies of \$2.6 million, pater activities of \$0.5 million, contract labor of \$0.5 million, outso offset by decreases in expenses related to depreciation of \$1.3 in-licensing of \$0.5 million.

General and Administrative Expenses. General and a compared to \$8.1 million for the year ended December 31, 20 legal costs of \$0.4 million in connection with litigation activi

Cost of Contract Manufacturing Revenue. There was compared to \$1.5 million for the year ended December 31, 20 provided during 2012.

Other Expense, Net. Other expense, net was \$3.7 mill ended December 31, 2011. The increase was primarily due to redeemable convertible preferred stock and common stock.

Liquidity and Capital Resources

We have incurred losses and cumulative negative cash fit 2013, we had an accumulated deficit of \$174.2 million. We a expect that our research and development and general and ad-

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result, we will need additional capital to fund our operations, other sources, including potential additional collaborations.

As of September 30, 2013, our operations have been fun equity investments from our partners, and \$192.6 million in upartners.

In September 2013, we completed the sale of 6,417,000 pursuant to the underwriters' full exercise of their option to punet proceeds to us of \$86.8 million, after deducting underwrite private placement of \$10 million of our common stock at a private placement of \$10 million of our common stock.

As of September 30, 2013, we had \$116.5 million in cas accordance with our investment policy, primarily with a view mutual funds consisting of U.S. government-backed securitie

We entered into a new venture debt facility on June 7, 2d. After an interest-only period, we began paying down principal is payable monthly. The debt facility also included a closing \$1.2 million which is due at the time of the final payment. We interest rate of approximately 11.8%. We are not subject to as as of, or acquired after, June 7, 2012, except for intellectual p

Cash Flows

The following table sets forth the primary sources and us

(in thousands)

Net cash provided by (used in): Operating activities Investing activities Financing activities

Net increase (decrease) in cash and cash equivalents

Operating Activities. The significant decrease in net compared to the nine months ended September 30, 2012, is p first quarter of 2013. The significant decrease in cash provide year ended December 31, 2011, is primarily due to the upfror received during 2011.

Net cash used in operating activities was \$18.3 million for \$3.8 million adjusted for non-cash items including an incress1.4 million,

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depreciation and amortization of \$0.7 million, forgiveness of million, and amortization of deferred debt issuance costs of \$29.9 million. The significant items in the change in operatin primarily to the recognition of \$24.3 million of deferred reversional 2013. Other components of the change in operating assets and collaboration receivables of \$1.3 million, an increase in preparating assets and collaboration accounts payable of \$0.2 million.

Net cash used in operating activities was \$29.4 million f of \$22.2 million adjusted for non-cash items including an inc \$0.9 million, depreciation and amortization of \$1.1 million, a issuance costs of \$0.1 million, and a net decrease due to chan change in operating assets and liabilities include a decrease it deferred in connection with up-front payments for the Celgen and an increase in prepaid expenses and other current assets of include an increase in collaboration receivables of \$1.0 million \$0.4 million.

Net cash used in operating activities was \$38.9 million f \$32.6 million adjusted for non-cash items including an increa \$1.2 million, depreciation and amortization of \$1.3 million, a assets and liabilities of \$11.5 million. The significant items ir of \$9.7 million due to the ongoing recognition of revenue def agreements, a decrease in accounts payable of \$1.3 million ar increase in accrued expenses of \$1.6 million. Other compone expenses and other current assets of \$0.6 million and a decrease

Net cash provided by operating activities was \$9.1 millio \$36.3 million, which was impacted by non-cash items includi \$1.4 million, an increase in the fair value of warrants of \$0.5 discount of \$0.2 million and a net decrease in operating asset assets and liabilities include a decrease in deferred revenue of the Celgene collaboration upfront payments as a result of the expenses of \$2.8 million, offset in part by a decrease in prepareceivables of \$1.8 million. Other components of the change \$0.3 million and an increase in deferred rent of \$0.2 million.

Investing Activities. Net cash used in investing activities for the nine months ended September 30, 2012 and consisted

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Net cash used in investing activities was \$27,000 for the 2012 and consisted of purchases of property and equipment.

Financing Activities. Net cash provided by financing consisted of \$97.4 million in net proceeds received from the c \$1.8 million of principal payments made to pay down our ver preferred stock, common stock and warrants to purchase commonths ended September 30, 2012 and consisted primarily of line in June 2012, offset by \$6.2 million of principal payment

Net cash provided by financing activities was \$21.1 mill of net proceeds received from the sale of 9,704,756 shares of stock options and warrants to purchase common stock, offset debt facility.

Net cash provided by financing activities was \$13.9 mill proceeds received from the drawdown of our new venture del options and warrants to purchase common stock, offset by \$6

Operating Capital Requirements

To date, we have not generated any revenue from product sales. We will not generate revenue from product sales unless of our current or future protein therapeutics. We anticipate th losses to increase as we continue the development of, and see therapeutics, and begin to commercialize any approved produtherapeutics, and we may encounter unforeseen expenses, diffour business. Since the closing of our initial public offering, operating as a public company. We anticipate that we will necessary

We believe that the net proceeds we receive from this of and cash equivalents will be sufficient to fund our projected of additional capital for the further development of our existing pursue other development activities related to additional prote

Until we can generate a sufficient amount of revenue from equity offerings, or debt financings or other sources including favorable terms, if at all. If we are unable to raise additional consignificantly delay, scale back or discontinue the development raise additional funds through the issuance of

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additional debt or equity securities, it could result in dilution securities may have rights senior to those of our common stor restrict our operations and potentially impair our competitive ability to acquire, sell or license intellectual property rights at business. We may not be able to enter into new collaboration events could significantly harm our business, financial condit

Our forecast of the period of time through which our fin statement and involves risks and uncertainties, and actual rest assumptions that may prove to be wrong, and we could utilize requirements, both near and long-term, will depend on many

the achievement of milestones under our the terms and timing of any other collaborates the initiation, progress, timing and compliand potential protein therapeutic candidates the number and characteristics of protein the progress, costs and results of our clinic the outcome, timing and cost of regulators delays that may be caused by changing results the cost and timing of hiring new employs the costs involved in filing and prosecution the costs and timing of procuring clinical the extent to which we acquire or invest in the costs and the costs involved in filing and prosecution the costs and timing of procuring clinical the extent to which we acquire or invest in the costs and the costs involved in filing and prosecution the costs and timing of procuring clinical the extent to which we acquire or invest in the costs and the costs and timing of procuring clinical the extent to which we acquire or invest in the costs and timing of procuring clinical the extent to which we acquire or invest in the costs and timing of procuring clinical the extent to which we acquire or invest in the costs and timing of procuring clinical the extent to which we acquire or invest in the costs and timing of procuring clinical the extent to which we acquire or invest in the costs and timing of procuring clinical the extent to which we acquire or invest in the costs and timing of procuring clinical the extent to which we acquire or invest in the costs and timing the costs are constant.

the costs involved in defending and prose with the Salk Institute. See "Business Li

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Contractu

The following is a summary of our long-term contractua

			Le	ss than
in thousands) To		Total	1	Year
Operating lease obligations(1)	\$	23,979	\$	4,52
Less: sublease income(2)		(1,407)		(58
Venture debt facility(3)		24,320		5,30
T. 4.1	¢.	46.000	¢.	0.24
Total	\$	46,892	\$	9,24

(1) We lease office space at 128 Sidney Street and 149 that expire in September 2018, and at 12 Emily Street in May 2015.

(2) In February 2011, we entered into a sublease for 14

In June 2012, we entered into a \$20.0 million ventuunder this debt facility are secured by our assets an Interest rates were fixed at the time of drawdown, v

We also have obligations to make future payments to thi development, regulatory and commercial milestones. We hav because the achievement and timing of these milestones is no

> Under our license agreement with the Bei in patent rights related to the treatment of tyrosine kinase inhibitors, we agreed to p \$1.0 million. In addition, we are required drug labeled for treatment regimens that a

> Under our license agreement with the Luc the first cloning of the type I activin recep pay LICR specified development and sale and commercialization of dalantercept. In worldwide net product sales of dalanterce after patent expiration. If we sublicense the excluding payments based on the level of

> Under our two license agreements with the type II activin receptors, if we sublicense excluding payments based on sales. Under payments totaling up to \$2.0 million for sequelopment milestone payments of up to pay Salk royalties in the low single-digits rights of products claimed in

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the licensed patents, or products derived to continuing at a reduced rate for a period of

We enter into contracts in the normal course of business for preclinical safety and research studies, research supplies a provide for termination on notice, and therefore are cancelable commitments.

Net Opera

We have deferred tax assets of approximately \$68.2 mill due to uncertainties surrounding our ability to realize these ta net operating loss, or NOL, carryforwards and research and d NOL carryforwards of approximately \$93.3 million and state any. These federal NOL carryforwards expire at various time 2032. In general, if we experience a greater than 50 percent a period, or a Section 382 ownership change, utilization of our Section 382 of the Internal Revenue Code of 1986, as amende the NOL carryforwards before utilization and may be substant offering or as a result of future changes in our stock ownership NOL carryforwards may be limited or lost.

Off-E

We did not have during the periods presented, and we do regulations of the Securities and Exchange Commission.

Quantitative and Q

We are exposed to market risk related to changes in inte million. Our cash equivalents are invested in money market not market risk is interest rate sensitivity, which is affected by investments are in short-term securities. Due to the short-term immediate 100 basis point change in interest rates would not

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Overview

We are a clinical stage biopharmaceutical company focus therapeutics for cancer and rare diseases. Our research focuse superfamily, a large and diverse group of molecules that are lare leaders in understanding the biology of the TGF- β superfacoupling our discovery and development expertise, including engineering and manufacturing capabilities, we have built a hypotein therapeutic candidates with novel mechanisms of actisignificantly improve clinical outcomes for patients with candidates.

We focus on discovering and developing protein therape collectively referred to as the TGF- β superfamily. These ligar intra-cellular changes in gene expression that guide cell grow an under-explored and diverse set of drug targets with the pottissues.

We have three internally discovered protein therapeutic trials, focused on cancer and rare diseases. Our two most adv cell production through a novel mechanism. Together with our ACE-536 to treat anemia and associated complications in pat cell disorders are generally unresponsive to currently approved designed to inhibit blood vessel formation through a mechanic cancer drugs that inhibit blood vessel formation, the vascular dalantercept primarily for use in combination with these produpproximately \$142.1 million on research and development for the production of th

Sotatercept and ACE-536 have already shown promising human clinical trials with sotatercept in over 160 healthy voluhealthy volunteers. In these studies, both sotatercept and ACE these results, we and Celgene have initiated Phase 2 clinical the ongoing trials of sotatercept and ACE-536 in patients with hemoglobin in non-transfusion dependent patients at the three both of these protein therapeutic candidates in one or both of

With respect to our third clinical stage protein therapeut patients with advanced solid tumors. Of the 29 evaluable pati according to RECIST criteria. Additionally, we have studied advanced head and neck cancer. Of the 29 evaluable patients and ten had stable disease, according to RECIST criteria. Our

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with an approved VEGF pathway inhibitor where we have pr dalantercept in combination with a VEGF pathway inhibitor pathway. In an ongoing Phase 2 clinical trial of dalanterce with advanced renal cell carcinoma we have completed the demg/kg is well tolerated in combination with the FDA approved study and plan to start the randomized controlled part of the strial of dalantercept in combination with the VEGF pathway is

In addition to our clinical stage programs, we are develor trial that we expect to initiate by the end of 2014. ACE-083 h injected, with minimal systemic effect. We are focused on the of specific muscles may provide a clinical benefit, including a atrophy.

We are developing sotatercept and ACE-536 through ou became responsible for paying 100% of worldwide development potential development, regulatory and commercial milestone receive a royalty on net sales in the low-to-mid 20% range. Which our commercialization costs will be entirely funded by

We have not entered into a partnership for dalantercept a

As of September 30, 2013, our operations have been fun \$86.8 million from investors in our initial public offering, \$49.4 Alkermes, Inc. (Alkermes) and \$192.6 million in upfront pay collaboration partners.

Our Strategy

Our goal is to be a leader in the discovery, development Key components of our strategy are:

Advance sotatercept and ACE-536 into It developing sotatercept and ACE-536. As and MDS, we plan to initiate Phase 3 climby the end of 2014 or early 2015.

Explore new indications for sotatercept of research to assess the opportunity for sotate hemoglobinopathies, which include diseat preclinical and clinical data in β -thalasses therapeutic candidates, we believe there it continue to explore development of these

Advance dalantercept into Phase 3-enab initiate additional clinical trials of dalante

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either an approved anti-angiogenesis ager patients with liver cancer and other trials

Utilize our discovery and development pusotatercept, ACE-536 and dalantercept, a we intend to continue to discover and dev TGF- β superfamily. We plan to bring an diseases involving muscle loss. We are all dalantercept for the treatment of diseases developing new protein therapeutic candi

Strategically leverage collaborations to a \$250.0 million from our corporate partne ACE-536 provide us with significant function commercial capabilities. We will continue development or commercialization of oth

Establish commercialization and market retained co-promotion rights in North An intend to build hematology, oncology and commercialize our protein therapeutic car

The Acceleron Discovery Platform: Novel Approaches to

Since our founding, we have focused on developing probligands, that are collectively referred to as the TGF- β superfatriggering intra-cellular changes in gene expression that guide represent a diverse and underexplored set of drug targets with and tissues. Applying our proprietary discovery and development its receptors, we have generated a robust pipeline of inno mechanisms underlying cancer and rare diseases.

Our Focus The TGF-\(\beta\) Superfamily

On a daily basis, the human body must orchestrate the g Stem cells and precursor cells are undifferentiated cell types required, these undifferentiated cells divide and, through a se repair the affected tissue. Decades of research have identified and differentiation of stem and precursor cells.

Until recently, regulation of the erythropoietin pathway Members of the TGF- β superfamily are now recognized as in members of the TGF- β superfamily ameliorates anemia in metwo protein therapeutic candidates, sotatercept and ACE-536, diseases.

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Members of the TGF- β superfamily also play a significal have shown that mice with a genetic defect in a particular recreduced blood vessel formation in the tumor. We have used the treatment of cancer.

Members of the family are also significant regulators of myostatin, causes profound increases in skeletal muscle. A na "double-muscled" breeds of cattle and in the "bully whippet" increased muscle mass or function. Furthermore, a mutation i exceptional musculature and strength. We are actively working

Ligands of the TGF- β superfamily cause these profound illustration below, a ligand of the superfamily initiates intrace Upon binding to the ligand, the receptor activates specific tra activated Smad proteins regulate gene expression and guide of

The TGF- β superfamily ligands are divided into subgrou Morphogenetic Proteins (BMPs) and the TGF- β subgroup (for focus on the activin, GDF and BMP subgroups.

We believe that, by employing our proprietary discovery $TGF-\beta$ superfamily signaling and unlock the therapeutic pote

Acceleron Approach

By combining the powerful biology of the TGF- β superlengineering and manufacturing capabilities, we have built a r mechanisms underlying cancer and rare diseases.

We have taken a comprehensive, receptor-focused approreceptors for the superfamily act as control points for the liga. We have in-licensed patent rights for nine of the 12 receptors comprehensive panel of ligands. In the body, these ligands ar ligand-receptor interactions and diminishing signaling in the therapeutic

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candidates using the ligand-binding part of the receptors, dep of ligands in each biological process. We link the ligand-bind antibody known as the Fc domain, depicted in the lower part resulting "fused" proteins can be administered by simple intra time to permit dosing on a weekly or monthly basis.

Protein therapeutics constructed this way are referred to therapeutics on the market belong to this category including I

As shown in the figure below, our receptor fusion protei those ligands from binding to the cell surface receptors, and t

To take full advantage of our proprietary discovery and capabilities to rapidly and cost-effectively create, test and advallows us to create and optimize our receptor fusion proteins. our protein therapeutic candidates, and assess the activity of t

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animals using our internal animal pharmacology facility or th to manufacture Phase 1 and Phase 2 clinical material quickly compliant protein production facility to support clinical devel

We use our integrated platform of research, developmen advance our protein therapeutic candidates. Our robust clinica particularly in the areas of cancer and rare diseases.

Our Product Pipeline

We have four development stage protein therapeutic can fourth we expect to begin human clinical trials by the end of three investigator-sponsored trials with sotatercept. We are confident and overseeing a collaborative group-sponsored with dalantercept in patients with hepatocellular carcinoma in end of 2014.

Sotatercept and ACE-536

Anemia in Patients with β-thalassemia and MDS

Erythropoiesis, the process by which precursor cells pro and active processes in human biology. The primary role of rany given time, there are approximately 25 trillion red blood number of cells. The human body produces 2.4 million new ratells referred to as red blood cell precursors. These precursor differentiation, to become more specialized cells to carry out of red blood cell production is normally tightly controlled by positive regulator that stimulates proliferation of early red blood.

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cells depicted in the figure below. Based on our research, it is regulators of red blood cell precursors, starting with the Pro-I $TGF-\beta$ superfamily restrain the maturation of these precursor

Depict

In certain diseases, the highly active process of red blood functional red blood cells, a condition known as anemia. Ane stimulating agents, such as recombinant erythropoietin, that s certain diseases, such as β -thalassemia and MDS, anemia is c known as ineffective erythropoiesis.

Anemias caused by ineffective erythropoiesis are not we erythropoiesis is characterized by an over-abundance of early to properly differentiate into healthy, functional red blood cel which exacerbates the over-abundance of early stage precurse early stage precursors, the increase in the number of these cel

Depiction

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Based on our preclinical research, we believe that TGF-the maturation of these early stage red blood cell precursors. regulators of late stage red blood cell precursors and promote

We are developing sotatercept and ACE-536, through of erythropoiesis-stimulating agents are either not approved or a and MDS in which anemia is caused by ineffective erythropo process. Although similar in terms of their effects on red bloc and inhibit ligands. Unlike ACE-536, sotatercept binds to and bone mass and biomarkers of bone formation in clinical trials kidney disease, where it has the potential to treat both anemia inhibits the growth of myeloma cells. Therefore, sotatercept i improve the anemia and the bone loss associated with the dise

β-thalassemia

The thalassemias comprise a heterogeneous group of dishemoglobin. Hemoglobin is a four-subunit protein complex f group that binds to and carries oxygen molecules within red by β -thalassemia, depending on whether the genetic defect lies in prevalent throughout the Mediterranean region, Middle East, The Thalassaemia International Federation estimates that there 20,000 of which are in the United States and Europe, who are many β -thalassemia patients in the same regions who are not have hemoglobin levels that are approximately half that of no

Anemia of β -thalassemia is primarily a result of ineffect β -subunits of hemoglobin resulting in an excess amount of the a cellular component called the proteasome. The proteasome cellular components and organelles such as mitochondria while blood cell. In thalassemia, the proteasome becomes saturated other cellular components and participate in the maturation protection of the proteasome form aggregates, called her with the saturation of the proteasome by unpaired α -subunits blood cells are filtered out by the spleen and have a reduced 1

Patients with the most severe form of β -thalassemia proconsequently a high number of hemichromes. These patients regular and lifelong red blood cell transfusions, usually every intensive transfusion regimen contributes to a condition known

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overload, which is the principal cause of mortality. Conseque standard treatment in these patients and typically begins after chelation therapy alone costs between \$25,000 and \$40,000 p depends largely on whether patients are maintained on an ade and/or iron chelation is associated with a poor prognosis and infection from transfusions as well as toxicities related to iron

Patients with an intermediate form of β -thalassemia, who suffer from a wide range of debilitating conditions. The ongo of organ systems. By the second decade of life, most of these half that of normal individuals. In an attempt to correct this continued stimulation of the early red blood cell precursors in bone marrow that it leads to skeletal deformities, porosity of the result in part of continuous clearance by the spleen of the to require removal of their spleen, which in turn leads to wors significant complication even in the absence of red blood cell ongoing ineffective erythropoiesis. Patients also suffer from an endocrine glands. Importantly, iron can also accumulate in the failure.

No drug is approved to treat the anemia of β -thalassemia for β -thalassemia, although this option is limited by the available marrow transplant procedure. Consequently this treatment is

Myelodysplastic Syndromes

Myelodysplastic syndromes, or MDS, are a group of het differentiation of blood precursor cells, including red blood c cells, often accompanied by decreases in white blood cells an Anemia is present in the vast majority of MDS patients at the diagnosed in individuals 60 years of age or older. Cancer sur 10,000 to 15,000 cases and the overall U.S. prevalence at app

Hematopoietic stem cell transplantation represents the o morbidity and mortality of this approach limits its use. Appropatients are typically treated with inhibitors of DNA methyltr (2012 U.S. sales of \$233 million for MDS). Of the remaining a specific chromosomal mutation and are typically treated wi patients typically receive red blood cell transfusions or erythrapproved by the FDA or the EMA for the

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treatment of anemia in MDS patients. Our internal market resin annual U.S. sales from their use in this disease.

The anemia in MDS is primarily due to ineffective eryth levels substantially above the normal range, indicating that the The ineffective erythropoiesis of MDS may be caused by exception cell maturation. For this reason we believe that blockin Approximately 50% of MDS patients are unresponsive to the transfusions, which can increase the risk of infection and iron erythropoiesis is a major cause of morbidity in MDS patients

Chronic Kidney Disease

Anemia is a common complication of chronic kidney disease produce extent in the liver, patients with chronic kidney disease produce omplications of chronic kidney disease include a condition be diseased kidneys fail to maintain proper levels of calcium and bones and vascular calcification. Bone and vascular disorders disorders affect almost all patients receiving dialysis. Accord disease patients receiving dialysis in the United States. Erythyears. Sotatercept has the potential to differentiate itself from effects on bone metabolism observed following the administrance Additionally, in mouse models of vascular calcification, sotated

Sotatercept Clinical and Preclinical Development

Sotatercept is a soluble receptor fusion protein consisting Fc domain of human IgG1. Sotatercept acts as a protein trap that increased red blood cells in multiple clinical trials.

Ongoing Phase 2 Clinical Trials of Sotatercept

Our collaboration partner, Celgene, is currently conduct and chronic kidney disease. The FDA has granted orphan des Celgene plans to submit an application for orphan drug desig academic institutions, Celgene is also overseeing three invest

Celgene-Sponsored Clinical Trials

 β -thalassemia. Celgene is conducting a Phase 2 clinicand efficacy of sotatercept in adults with β -thalassemia. The further dose

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escalation up to 1.0 and 1.5 mg/kg, given subcutaneously one discretion of the investigator for up to 22 months. Each cohor expansion phase at a selected dose level in up to ten additional has completed enrolling the 0.1, 0.3, and 0.5 mg/kg cohorts a of the trial is to identify a safe dose level and to measure efficiently 20% compared to the pretreatment transfusion burden for each level by ≥ 1 g/dL compared to the baseline hemoglobin, sustain of sotatercept on iron overload, which is an important cause of trial is being conducted in six sites in Italy, France, Greece, a

Sotatercept has generated encouraging preliminary data

As shown in the figure below, sotatercept has generated Phase 2 clinical trial who are non-transfusion dependent base

Mean Change in Hemog Non-Transfusion Dependent

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Another analysis of the data from this trial also shows do the first two months of receiving the first dose of sotatercept:

84% of non-transfusion dependent patien hemoglobin, while none of the non-transf threshold.

33%, 16% and 0% of non-transfusion depart and 0.1 mg/kg dose levels, respectively.

Maximum Change in Hemoglobin Level From Baseline in (Day 6

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The figure below shows that there is a statistically signif hemoglobin during the first three cycles across the three lowe serum and the y-axis shows the patients' maximum change in does the maximum increase in hemoglobin.

Relationship Between Drug Exposure and Hemoglobin L Cycles (D

Only patients completing (AUC) area

We expect Celgene to establish a range of recommended the clinical trials continue. We expect that in future clinical trundergo individualized dose titration based on hemoglobin rew we expect Celgene to continue to dose escalate in this trial withis trial. If this activity is confirmed with an acceptable safet of 2014 or early 2015. At the dose levels that have been studing Based on currently projected timelines, which are subject to confollows: data from additional dose levels and extended treatment quarter of 2014, and additional data in the fourth quarter of 2014.

MDS. Celgene is conducting a Phase 2 clinical trial of MDS. The dose levels to be studied are 0.1, 0.3, 0.5 and 1.0 a and up to three additional cycles for late responders, with con 20 patients receiving a single dose level during the dose escal

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phase, followed by an expansion phase at a selected dose level December 2012. Celgene has currently completed the 0.1, 0.3 escalation may go up to 2.0 mg/kg. The primary outcome me transfusions of <4 units of red blood cells in the eight weeks period ≥8 weeks in the absence of red blood cell transfusions weeks prior to dosing, HI-E is a decrease of ≥4 units of red blood transfused in the eight weeks prior to treatment. This trial will trial is being conducted at up to 23 sites in the United States a timelines, which are subject to change, we expect additional descalation portion of the clinical trial in the second quarter of

Chronic Kidney Disease. Celgene is conducting two F first is a Phase 2 clinical trial with sotatercept designed as a repharmacokinetics, safety, efficacy, tolerability and pharmacodisease on hemodialysis. The first patient in the trial was first subcutaneously as a single dose. Subsequent dose levels to be weeks for up to eight cycles. Each cohort will include up to 1 level during the dose escalation phase, followed by an additionand 0.5 mg/kg cohorts and is now enrolling patients in the 0.5 endpoints include effects on hemoglobin and serum markers of States and may enroll up to 56 patients.

Early data from this trial are encouraging. An interim an increases in hemoglobin in end stage renal disease patients of Clinical Meeting in April 2014.

Based in part on these interim data, and previously obserphase 2 clinical trial in Europe with sotatercept in patients with trial was first dosed in December 2013. The study is designed treat anemia and to control the adverse manifestations of chroof the study must first be on a stable dose of an erythropoiesist treatment free period of approximately five days, will then be

The first part is a dose-escalation study of intravenous at to evaluate pharmacokinetics, safety and tolerability. Patients weeks up to a total of eight doses and followed for approximatinform the dosing regimens to be tested in the second part of approximately 230 patients to evaluate the efficacy and safety part two of the study include the change in mean hemoglobin hemoglobin levels within a target range after switching from

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to sotatercept. Measures of biomarkers for bone formation an imaging of vascular calcification.

Sotatercept Investigator Sponsored Trials

Through collaborations with leading academic institution. Diamond-Blackfan anemia and myelofibrosis.

Multiple myeloma is a cancer of the bone bone marrow failure, bone pain, bone fra anemia. Investigators at the Massachusett combination of anti-myeloma therapies R cancer cells along with improving anemia

Diamond-Blackfan anemia is a rare and s Shore Long Island Jewish Health System with Diamond-Blackfan anemia who are

Myelofibrosis is an acquired disease of the leading to bone marrow failure and inabile Investigators at the MD Anderson Cancer patients with myeloproliferative neoplasments.

Completed Clinical Trials

Six human clinical trials of sotatercept, including Phase multiple myeloma, breast cancer, and non-small cell lung can volunteers, we observed increases in red blood cells and hemof 1.0 mg/kg was almost 3 g/dL, which is similar to receiving placebo-controlled trial in patients with multiple myeloma red dose-dependent increases in hemoglobin. In the placebo and increase in hemoglobin at day 29 of the trial compared to the patients, respectively, achieved at least a 1.5 g/dL increase in randomized, placebo-controlled clinical trial in breast cancer produced dose-dependent increases in hemoglobin levels. In hemoglobin levels increase to at least 11 g/dL maintained for stimulating agent. In the 0.3 mg/kg cohort, 22% of the patient this threshold. In a randomized, dose-ranging Phase 2 trial of administered at a fixed dose of 15 or 30 mg given subcutaned receive red blood cell transfusions within the first four weeks week 2 and 16% of patients at week four. Given the results of the future in one or more of these indications.

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Safety

Across the completed clinical trials, sotatercept has beer treatment-related serious adverse event was a report of persis elevated blood pressure cannot be determined, it was an expe Commonly observed adverse events included headache, infect and asthenia. In three studies of patients with cancer (myelon The event was evaluated as probably related to the concurren related to sotatercept. One patient with advanced breast cancel disease that were evaluated as possibly related to sotatercept. cerebrovascular accident (blockage of a blood vessel in the brown of the concurrent concepts.)

Among the ongoing clinical trials managed by Celgene, reported in the MDS trial. In the β -thalassemia trial as of Dec suspected as related to sotatercept: bone pain and superficial 0.5 mg/kg dose level had a treatment-related Grade 3 adverse treatment.

Sotatercept Investigational New Drug (IND) Appl

Sotatercept is the subject of three separate company-spo 2006 for the treatment of postmenopausal osteoporosis. There IND to the FDA on March 27, 2009 to assess the use of sotate transferred sponsorship of both INDs to Celgene on January with lower-risk MDS. A third IND was submitted by Celgene patients with end-stage renal disease. In addition, sotatercept The first CTA is for a Phase 2 study for the treatment of anent to the United Kingdom on July 26, 2012, to Italy on July 27, for the treatment of anemia in patients with lower-risk MDS, the treatment of anemia in patients with chronic kidney disease Voluntary Harmonization Procedure on June 17, 2013. Sotate INDs.

Preclinical Studies

In preclinical studies, RAP-011 (the mouse equivalent of assess its biological effects. RAP-011 has been shown to increased been shown to increase and state of the models. RAP-011 was also able to prevent chemotherapy-ind mouse model of chronic kidney disease. RAP-011 increased in mice on bone lesions and bone metastases in a number of contract of the mouse model.

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multiple myeloma. The preclinical activity of sotatercept is all

ACE-536 Clinical and Preclinical Development

ACE-536 is a soluble receptor fusion protein consisting to the Fc domain of human IgG1.

Ongoing Phase 2 Clinical Trials of ACE-536

We are conducting Phase 2 clinical trials of ACE-536 in designation for ACE-536 for the treatment of β -thalassemia a

β-thalassemia. We are conducting a Phase 2 clinical trefficacy in patients with β-thalassemia. The dose levels to be weeks for up to 85 days. Each cohort will include three to six followed by an expansion phase at a selected dose level in up types of transfusion-dependent patients, to increase the size of ACE-536. The first patient in the trial was first dosed in Marca are currently enrolling patients in the 0.8 mg/kg cohort. The phemoglobin of ≥1.5 g/dL from baseline for ≥14 days (in the ale ≥20% reduction in red blood cell transfusion burden compare will also examine the effects of ACE-536 on iron overload, a endpoints include markers of serum iron and hemolysis. The include additional sites in Europe and may enroll up to 72 pat

Initial data from this clinical trial is encouraging. As of a treatment with ACE-536 show that non-transfusion dependent hemoglobin of approximately 1.5 g/dL, while patients in the capproximately 0.0 and 0.8 g/dL, respectively. Based on these establish a range of recommended ACE-536 dose levels. We starting dose level and to undergo individualized dose titration appropriate hemoglobin level.

Based on currently projected timelines, which are subjected tarefrom the dose escalation portion of the clinical trial during

MDS. We are conducting a Phase 2 clinical trial of AC risk MDS. The dose levels to be studied are 0.125, 0.25, 0.5, to 85 days. Each cohort will include three to six patients receivan expansion phase at a selected dose level in up to 30 patien completed enrollment in the 0.125, 0.25, 0.5, 0.75 and 1.0 mg outcome measure is the proportion of patients who have an in

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baseline for 14 days in the absence of red blood cell transfusi blood cell transfusions over a period of eight weeks compared also examine the effects of ACE-536 on iron overload. The transfusion patients. Based on currently projected timelines, which are sure available as follows: data from the dose escalation portion of quarter of 2014.

Completed Phase 1 Clinical Trial

ACE-536 was studied in a double-blind, placebo-control ACE-536 produced dose-dependent increases in hemoglobin g/dL increased on a dose-dependent basis, with approximatel

Safety

In the completed Phase 1 clinical trial in healthy volunte reported in the completed Phase 1 clinical trial. Commonly of bruising, injection site blemish, dry skin, numbness, muscle s clinical trials, there have been no ACE-536 related serious ad thalassemia trial who was treated at the 0.8 mg/kg dose level dose reduction to 0.6 mg/kg for the second cycle and subsequences.

ACE-536 Investigational New Drug (IND) Applica

ACE-536 is being studied in the United States under an IND is for the treatment of anemia in patients with MDS. No being studied in Europe under two separate Clinical Trial Apadult patients with β -thalassemia, submitted to Italy on Augu is for a Phase 2 study for the treatment of anemia in patients with β -thalassemia.

Preclinical Studies

A number of preclinical pharmacology studies have been effects on red blood cells, hemoglobin and hematocrit. Collec β -thalassemia, MDS, chemotherapy-induced anemia, acute by

β-thalassemia. RAP-536 has been evaluated in a serie mutations in the β-globin genes, resulting in a deficiency of β-thalassemia patients, including severe anemia and the form severe complications common in patients with thalassemia, so treatment improved

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numerous hematologic parameters, including significant incre erythropoietin, normalized red blood cell size, and reduced re

Representative blood smears were taken from the β -thal animals. As shown in the image below, RAP-536 improved red blood cells, and reducing the amount of cellular debris that

Importantly, RAP-536 improved the maturation of later concomitant reductions in the earlier-stage red blood cell predecreasing the formation of harmful hemichromes. It appears promoting the removal of unpaired α -hemoglobin and stimul

This reduction in ineffective erythropoiesis reduced several deposition in organs, reduced spleen weights and normalized model of β -thalassemia, we believe that it is modifying the di

MDS. In a mouse model of MDS, RAP-536 treated an levels and hematocrit compared to controls. Additionally, RA the ratio of red blood cell precursors to other cells in the bone

Sickle Cell Disease. We and Celgene are exploring the

Taken together, our clinical and preclinical results sugge

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Dalantercept

Inhibiting Angiogenesis to Limit Tumor Growth

Angiogenesis is a process by which new blood vessels a followed by the maturation stage. During the proliferative sta multiply in number and migrate to the site where a new vesse which the endothelial cells coalesce to form tubes which are to five blood vessels resulting in fully formed, functional vess

Tumors depend on angiogenesis to form new blood vess principal molecule driving the proliferative stage of angiogen Inhibiting VEGF-driven angiogenesis to control tumor growt several FDA-approved cancer drugs that inhibit the VEGF pathese drugs, many patients fail to respond or develop resistant to inhibit angiogenesis by a different mechanism.

We are using our knowledge of the TGF- β superfamily to maturation stage of angiogenesis. Recently, the activin recept stage of angiogenesis. ALK1 is one of the 12 receptors for lig importance of the ALK1 pathway in angiogenesis was discoved hemorrhagic telangiectasia 2 (HHT-2) in which patients maninetworks of small blood vessels that connect arteries to veins that these patients have only one of two functional copies of the table of tab

We reasoned that leveraging the biology of the ALK1 palimiting the development of capillary beds within the tumor. I have only one, rather than two copies, of the ALK1 gene. In research density in the tumor were reduced by half. These result as a promising target for developing a new class of anti-angion

We believe one promising opportunity for dalantercept variety target distinct sequential steps in angiogenesis. Moreover, we maturation are able to sensitize the tumor vasculature to the avessels become more resistant to VEGF pathway inhibitors at dalantercept may maintain newly formed vessels in an immat

We and our academic collaborators have also shown in the This is in contrast to VEGF pathway inhibitors that increase in the contrast to the term of the contrast to the contr

We believe that a combination of ALK1 and VEGF pathwhere VEGF pathway inhibitors are currently used. The currently used (sorafenib),

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Sutent® (sunitinib), Inlyta® (axitinib), and Votrient® (pazop cell lung cancer, colorectal cancer, renal cell carcinoma and l

Non-Small Cell Lung Cancer (NSCLC). cancer in the United States in 2013 with 1 United States and \$1.7 billion worldwide

Colorectal Cancer. The National Cancer in the United States in 2013 with 50,830 United States and \$3.6 billion worldwide

Renal Cell Carcinoma. The National Car United States in 2013 with 13,680 deaths \$800 million were anti-angiogenesis drug Worldwide sales in 2012 of drugs for ren VEGF pathway.

Liver Cancer. The National Cancer Insti 2013 with 21,670 deaths. The only drug a inhibitor Nexavar®. In 2012, sales of Neworldwide.

Other Tumors. One or more anti-angioge cancer and glioblastoma.

Developing Indications. It is believed the highly-vascularized cancers, including en While no anti-angiogenesis agents are aptreatment of ovarian cancer.

The first two cancers for which we are studying the combinat liver cancer. In renal cell cancer, sunitinib and axitinib are the respectively. In the first line setting, sunitinib results in progr patients whose disease had progressed despite receiving sunit approximately 4.8 months. We believe the combination of da of progression-free survival greater than axitinib alone. In liv yet the unmet medical need remains significant. In the first line

Dalantercept Clinical and Preclinical Development

Dalantercept is comprised of the extracellular domain of trap for ligands in the TGF- β superfamily that signal through pursuing a program of ongoing and planned Phase 2 trials see and activity of dalantercept in combination with approved VF

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Ongoing and Planned Phase 2 Clinical Trials of I

We are currently conducting two Phase 2 clinical trials of through collaborations with a National Cancer Institute funde overseeing an additional Phase 2 clinical trial in ovarian canchalf of 2014. We plan to submit applications for orphan design requirements for orphan status.

Acceleron Sponsored Clinical Trials

Squamous Cell Carcinoma of the Head and Neck. W dose trial in patients with recurrent or metastatic squamous co October 2011. After an initial cohort of two patients treated a under the amended protocol in the first quarter of 2012 to stuprotocol was subsequently amended to increase the dose leve disease progression (either clinically or as measured by analy longer tolerated. The primary outcome measure is objective r outcome measures of tumor response. The trial is being cond with a total of 46 patients, including two patients treated at th patients, 41 patients (one patient at 80 mg, 13 patients at 0.6 i according to RECIST criteria as of December 20, 2013. The patients (23%) at 0.6 mg/kg and ten patients (37%) at 1.2 mg/kg and, at the 1.2 mg/kg dose level, one patient (2.4%) achieved preliminary data suggest dalantercept has dose dependent but the head and neck. We believe the greatest potential for dalar with cytotoxic chemotherapy.

Renal Cell Carcinoma. We are conducting a two-part VEGF pathway inhibitor, in patients with advanced renal cell expansion stage with the primary endpoint of evaluating the saxitinib to select a dose level of dalantercept (in combination the dose escalation stage were 0.6, 0.9, and 1.2 mg/kg given s 0.9 and 1.2 mg/kg dose levels were four, four and five patient phase and we are now enrolling up to 20 additional patients in Patients continue to receive dalantercept and axitinib until the the combination is no longer tolerated. Up to a total of 44 pat of the trial will be a randomized comparison of the selected d 112 patients. The primary endpoint of part two of the trial will United States.

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We believe that early preliminary data from this trial are assessment period for each dose cohort. Of the 13 patients en therapy and six (46%) had received ≥ 2 prior therapies, include 2013, six of eleven (55%) evaluable patients completed ≥ 6 c 0.6 mg/kg dose level, two of four patients at the 0.9 mg/kg dose preliminary evidence that dalantercept can be safely combined As of the most recent analysis (August 28, 2013) of tumor reachieved a partial response and one patient had achieved stable response and three patients had achieved stable disease at the been analyzed.

Based on currently projected timelines, which are subject or the beginning of the second quarter of 2014, which, if succeeds to be available when we initiate part two of the trial.

Hepatocellular Carcinoma

In the first half of 2014, we plan to initiate a Phase 2 sin with sorafenib, an approved VEGF pathway inhibitor, in paties afety and tolerability of various dose levels of dalantercept is progression, progression-free survival, disease control rate, as subcutaneously once every three weeks in combination with 400 mg sorafenithree weeks in combination with 400 mg sorafenithree weeks in combination with 400 mg sorafenib given twice during the dose escalation phase, followed by an expansion p and sorafenib until there is disease progression (either clinical

Gynecologic Oncology Group (GOG) Sponsored T

The Gynecologic Oncology Group, one of the National 2 clinical trials to study the activity of dalantercept at a dose I weeks. The first trial was in patients with recurrent or persists ovarian cancer. Both of these clinical trials were designed as endpoints: RECIST-defined response rate or progression free additional patients will be enrolled in the second, expanded p 28 patients, 16 (57.1%) achieved stable disease and 5 (17.9% alive and progression free without receiving non-protocol the commonly reported toxicities regardless of attribution. The Gin the second part of the endometrial cancer trial. The GOG of

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anticipate that in the middle of 2014, we may receive notificate second part of the ovarian cancer trial.

Phase 1 Trial Results

A Phase 1 ascending dose trial evaluated the safety, tole advanced solid tumors. Dalantercept was given subcutaneous patients were enrolled in dose groups at 0.1, 0.2, 0.4, 0.8, 1.6 on decreases or stabilization of tumor size. As shown in the fi and 13 (45%) had stable disease according to RECIST criteric least three months. Treatment continued until the patient experience.

The figure below displays each patient's best overall respect patient received is shown below their bar.

Best Overall Response by the Maximum Percent C

In addition to these effects on tumor size, dalantercept d metabolic activity as well as decreases in tumor blood flow. I to those in HHT-2 patients, suggesting ALK1 pathway inhibi

Safety

In clinical trials to date, dalantercept has been generally patients out of 37 experienced serious adverse events deemed overload, and

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congestive heart failure. Two of these patients had prior coronanaged with diuretics. As of December 24, 2013, the follow trials. Two patients in the head and neck cancer clinical trial I were determined to be possibly related to dalantercept. Anoth tracheal obstruction and pulmonary edema that were determinendometrial cancer, seven patients have experienced treatmer cavity, fluid accumulation around the lungs, rectal fistula, gas patients with ovarian cancer, one patient has experienced treatment potassium), anorexia, dehydration and increased creatinine. In adverse events. Adverse events associated with axitinib did n

Dalantercept Investigational New Drug (IND) App

Dalantercept is being studied in the United States under with advanced solid tumors or multiple myeloma. Dalanterce Gynecologic Oncology Group: the first was submitted on Au second submitted on September 25, 2012 for the treatment of

Preclinical Studies

We have demonstrated that dalantercept as a single agen Importantly, we have shown that dalantercept is a potent inhi inhibitors that target the proliferative stage of angiogenesis.

We also demonstrated that dalantercept in combination of bearing human renal cell carcinoma xenografts, we and our a dalantercept and sunitinib, a VEGF-receptor tyrosine kinase is model of human renal cell carcinoma that develops resistance

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growth was blocked by the simultaneous administration of da

Dalantercept/Sunitinib Combination Exceeds Activity of Either Alone (Mouse Model of Renal Cell Carcinoma (A498))

Collaboration with Drs. Wang, Bhatt,

Development Objectives

For sotatercept and ACE-536, our development strategy conduct similar clinical trials with each protein therapeutic careview the data from both studies and determine which, if eith It is our goal to initiate the Phase 3 clinical trials for one or boor early 2015.

In addition, we and Celgene are performing preclinical r blood cell disorders known as hemoglobinopathies, which incencouraging preclinical and clinical data in β -thalassemia and therapeutic candidates, we believe there is a potential for actiunderway.

For dalantercept, our development strategy is to continue compares the combination of dalantercept and axitinib to axit 2014. We will also work toward completion of the ongoing si half of 2014, at least one additional trial of dalantercept in carcurrently considering trials of dalantercept in combination will lung cancer in combination with chemotherapy and/or a VEC

Our Preclinical Pipeline

We are using our discovery platform and knowledge of candidates that inhibit ligands of the TGF- β superfamily.

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We have preclinical stage protein therapeutic candidates in or

inhibition of liver fibrosis in mouse mode

improvement of cardiovascular function is

improvement in diseases of the eye such degeneration (AMD).

ACE-083

We are developing a novel protein therapeutic candidate 2014. ACE-083 acts as a trap for ligands in the TGF- β superf these ligands, ACE-083 can increase muscle mass, as we hav muscles in which the drug is injected. In preclinical animal st muscles but no systemic increases in muscle mass. We are fo and function of specific muscles may provide a clinical benef disuse atrophy.

ACE-083 S Injected Mu

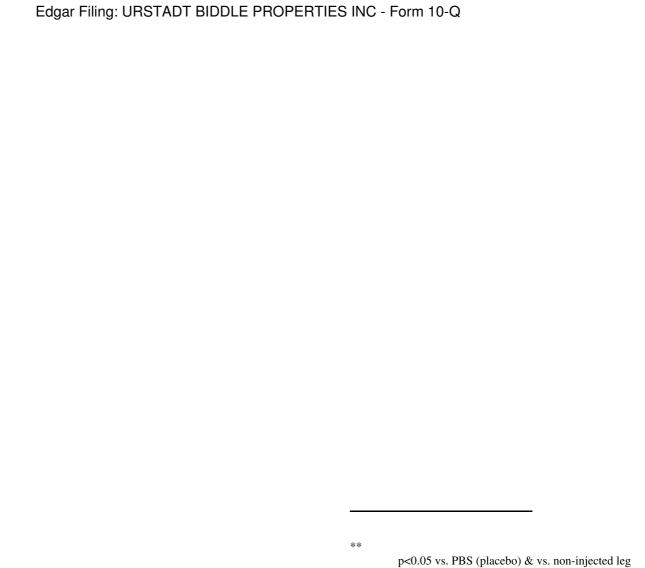


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ALK1 Pathway Inhibitors for the Treatment of Di

Although VEGF pathway inhibitors are the standard of of therapies. Perivascular cell coverage may protect endothelial the number of perivascular cells, the activity of VEGF pathway genetic evidence indicates that patients with hereditary hemodefective vasculature with reduced perivascular cell coverage the treatment of diseases of the eye. The combination of a VE treatment of neoangiogenesis diseases of the eye including A

Our Strategic Partnerships

Collaborations with corporate partners have provided us regulatory and commercial capabilities. We have received mo

Celgene

On February 20, 2008 we entered into an agreement, wh which we granted to Celgene worldwide rights to sotatercept which we refer to as the ACE-536 Agreement under which w of the Sotatercept Agreement. These agreements provide Celwell as exclusive rights to obtain a license to certain future co

Sotatercept Agreement. Under the terms of the Sotater commercialization of sotatercept. We also granted Celgene at Celgene paid \$45.0 million and bought \$5.0 million of equity have received \$34.5 million in research and development fun

We retained responsibility for research, development thr supplies for these trials. These activities are substantially con chronic kidney disease and will be responsible for any future are eligible to receive future development, regulatory and cor additional \$348.0 million for each of the three discovery stag achieve payment of a milestone, nor do we expect any such n

ACE-536 Agreement. Under the terms of the ACE-536 commercialization of ACE-536. We also granted Celgene an application for the treatment of anemia. Celgene paid \$25.0 n September 30, 2013, we have received \$28.3 million in resea

Under this agreement, we retained responsibility for resetrials in MDS and β -thalassemia, as well as

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manufacturing the clinical supplies for these studies. Celgene manufacture ACE-536 for all Phase 1 and Phase 2 clinical tri Phase 3 clinical trials and commercial supplies. We are eligib \$200.0 million for the ACE-536 program.

Both Agreements. Under each agreement, the conduct Commercialization Committee. Other than with respect to cer committee, the resolution of the relevant issue is determined costs under the Sotatercept and ACE-536 Agreements. As of development costs for both programs. Celgene will be respon sotatercept, ACE-536 and future products, in each case if app related thereto. We will receive tiered royalties in the low-tosotatercept and ACE-536 are the same. Celgene is obligated t ACE-536. Celgene may determine that it is commercially rea the development or commercialization of the other protein the reasonable to continue development of one or both of sotatero the discontinued candidate or candidates ourselves. The agree or by Celgene for convenience on a country by country or pro in its entirety or on a product by product basis, for failure of a us or termination by Celgene for convenience or failure to me termination for cause by Celgene will have the effect of reduc

Other Collaborations

Alkermes. On December 3, 2009, we entered into a C technology platform for extending the circulating half-life of rights to apply this technology to proteins outside of the TGF development, regulatory and sales milestones and mid-single Alkermes using this technology. To our knowledge, Alkerme

Shire. On September 8, 2010, we entered into an agree a clinical stage protein therapeutic candidate. We granted Shi agreement, Shire made an upfront cash payment of \$45.0 mil during the term of the agreement. In April 2013, we and Shir terminated our collaboration agreement, effective as of June 3 development of ACE-031.

Competition

The development and commercialization of new drugs is all protein therapeutics we may develop or

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commercialize in the future from pharmaceutical and biotech potentially competing products have significantly greater fina manufacturing, preclinical testing, conducting clinical trials, or reduced or eliminated if our competitors develop and comme convenient or are less expensive than any products that we m

If our clinical stage protein therapeutics are approved, the following indications, and potentially with drug candidate

β-thalassemia

If either sotatercept or ACE-536 is approved for the trea

Red blood cell transfusions and iron cheld aware that Shire is studying a new oral iron

Fetal hemoglobin stimulating agents, succell disease, are sometimes used to treat pagent being developed by HemaQuest Ph sponsored Phase 2 clinical trial in patient

Hematopoietic stem cell transplant treatm sufficiently well-matched source of dono improvements to this approach.

Other therapies in development, including bio, Inc., Memorial Sloan Kettering Canc with Biogen Idec.

MDS

If either sotatercept or ACE-536 is approved for the trea

Recombinant erythropoietin and other ery anemia in MDS, current practice guidelin stimulating factor agents (G-CSF) to trea Aranesp®, is currently in Phase 3 clinical

Red blood cell transfusion and iron chela MDS.

Immunomodulators, including Celgene's MDS patients.

Other therapies in development, including developed by Celgene to treat patients with which is currently in Phase 3

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clinical trials in the United States and Eur MDS.

Chronic Kidney Disease

If either sotatercept or ACE-536 is approved for the trea with erythropoiesis stimulating agents that have been approved Medicaid Services (CMS) changed the reimbursement practic dialysis, which has led to changes in the way erythropoiesis s patients treated with erythropoiesis stimulating agents as well anticipated future introduction of biosimilar erythropoiesis stimulationally, we are aware that Astellas Pharma and Fibroge erythropoietin to treat patients with anemia.

Oncology Therapies

We are developing dalantercept to be used in combination approved, it would compete with:

Other non-VEGF angiogenesis inhibitors inhibitors or used independently of VEGI OncoMed Pharmaceuticals, Pfizer and Tr

Pfizer's fully human monoclonal antibody mesothelioma.

In addition to the therapies mentioned above, there are n various types of cancer, including renal cell carcinoma, head

Therapies for Treating Muscle Loss

We are in the process of moving our lead pre-clinical prodevelop ACE-083 for the treatment of neuromuscular disorder other approaches to treating muscle loss that are in clinical transported that are inclinical transported to the activin receptor type IIB (ActRIIB), in various processed that the Actrian transported the Actrian transported to the Myositis Association of a gene therapy delivery of follistatin (FS344) to muscle in myositis (sIBM). Eli Lilly is developing, LY2495655, a myoscancer-related cachexia. Regeneron and Sanofi are developing clinical development for treatment of sarcopenia. Biogen Idea the tumor necrosis factor (TNF)-like weak inducer of apoptos Atara Bio is developing PINTA 745, a myostatin inhibiting pare on dialysis.

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The key competitive factors affecting the success of any and level of promotional activity.

Commercialization

We retain co-promotion rights with our collaboration paterms of our agreements with Celgene, our commercialization commercialization rights for our oncology protein therapeutic We intend to build hematology, oncology and neuromuscular markets to effectively support the commercialization of these target key prescribing physicians in these areas. We currently required capabilities within an appropriate time frame ahead are not able to establish sales and marketing capabilities or arthrough collaborations with Celgene, any future product reve

Intellectual Property

Our commercial success depends in part on our ability to biological discoveries, screening and drug development techn prevent others from infringing our proprietary rights. Our pol U.S. and foreign patent applications related to our proprietary and implementation of our business. We also rely on trade se opportunities to develop and maintain our proprietary position. United States, Europe and other countries that relate to the reprovide periods of non-patent-based exclusivity for qualifying

Our patenting strategy is focused on our protein theraped protein in key therapeutic areas. We also seek patent protection for targeted patient populations. We have sought patent protection agreements.

Our patent estate, on a worldwide basis, includes approx pending and issued claims relating to all of our current clinica these, approximately 20 issued patents cover the nine recepto discovery approach. These figures include in-licensed patents

Individual patents extend for varying periods of time depand the legal term of patents in the countries in which they ar effective for twenty years from the earliest non-provisional fit a portion of the term effectively lost as a result of the FDA regular years and the total

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patent term including the restoration period must not exceed accordance with provisions of applicable local law, but typica with respect to our receptor-focused platform will expire on a with respect to our protein therapeutic candidates will expire However, the actual protection afforded by a patent varies on factors, including the type of patent, the scope of its coverage particular country and the validity and enforceability of the patents.

National and international patent laws concerning protein patent-eligibility or the breadth of claims allowed in such pate either the patent laws or in interpretations of patent laws in the and enforce our intellectual property rights. Accordingly, we patents or in third-party patents. The biotechnology and pharmother intellectual property rights. Our ability to maintain and success in obtaining effective claims and enforcing those claimay file or license from third parties will result in the issuance be challenged, invalidated or circumvented, and the rights gray competitive advantages against competitors with similar tech commercialize similar drugs or duplicate our technology, bust time required for clinical development and regulatory review commercialized, any related patent may expire or remain in fadvantage of any such patent. The patent positions for our more

Sotatercept Patent Coverage

We hold two issued patents covering the sotatercept commost countries of the European Patent Convention) and additincluding Japan, China, South Korea, Brazil, Mexico, Russia patents is 2026 plus any extensions of term available under not seen to be added to the convention of the co

We hold two issued patents covering the treatment of an or pending in many other major jurisdictions worldwide, incl The expected expiration date for these composition of matter

We also hold patents and patent applications directed to in multiple myeloma.

ACE-536 Patent Coverage

We hold two issued patents covering the ACE-536 company other major jurisdictions worldwide, including Europe,

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Japan, China, South Korea, Brazil, Mexico, Russia and India. 2029, exclusive of possible patent term extensions.

We hold one issued patent covering the treatment of ane pending in other major jurisdictions worldwide, including Eu expiration date for these method of treatment patents is 2029

Dalantercept Patent Coverage

We hold one issued patent covering the dalantercept con exclusive of possible patent term extensions, and we hold adopatent applications covering composition of matter in many of Brazil, Mexico, Russia and India. The expected expiration da are either 2027 or 2029, exclusive of possible patent term ext

We hold one issued patent covering the treatment of turn patents issued or pending in other major jurisdictions worldw. The expected expiration date for these method of treatment p

We also hold patent applications directed to a variety of combination of dalantercept and a VEGF-targeted tyrosine ki Israel Deaconess Medical Center, or BIDMC, and we have se these patent applications, should they issue as patents, is 2033

Trade Secrets

In addition to patents, we rely upon unpatented trade sec maintain our competitive position. We seek to protect our propartners, collaborators, employees and consultants and invent protect our proprietary information and, in the case of the invideveloped through a relationship with a third party. These agi In addition, our trade secrets may otherwise become known of partners, collaborators, employees and consultants use inteller rights in related or resulting know-how and inventions.

In-Licenses

Effective June 21, 2012, we entered into a license agreed worldwide, exclusive rights under patent filings jointly inven by combination therapy with dalantercept and VEGF-recepto U.S. patent filing and one pending PCT (international) patent BIDMC retained rights, on behalf of itself and other non-prof

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non-profit purposes. The license rights granted to us are furth rights due to its sponsorship of research that led to the creation milestone payments aggregating up to \$1.0 million. In addition net product sales of drug labeled for treatment regimens that the last valid claim of the licensed patent rights. We may term agreement may also be terminated by BIDMC in the event of or similar circumstances. In any termination event, we retain right to sublicense.

In August 6, 2010, we entered into an amended and resta obtain worldwide, exclusive rights under patent filings solely LICR-owned patent rights relate to the first cloning of the typ claims to nucleic acids, proteins and antibodies with respect t 2018. The license excludes the rights with regard to anti-ALF with dalantercept and, if issued, such patent rights are expected and other non-profit academic institutions, to practice under the development and sales milestone payments aggregating up to the low single-digits on worldwide net product sales of product reduced rate for eight years after patent expiration. If we sublive revenue, excluding payments based on the level of sales, profest expiration of royalty obligations. We may terminate the agree be terminated by LICR in the event of a material breach by uncircumstances. In any termination we retain our joint owners.

In August 2010, we entered into two amended and restate providing rights under U.S. patent filings solely owned by Satype II activin receptors, human ActRIIA and frog ActRIIB, with respect to each of the foregoing. These patent rights expand sotatercept; the other agreement relates to ActRIIB, ACE to the therapeutic products that are covered by the patents and using the Salk patent rights. If we sublicense the Salk patent based on sales. Under the agreements, Salk retained rights, or licensed rights for non-profit purposes. We agreed to pay Sali sotatercept and \$0.7 million for ACE-536. In addition, we are sales by us or our sublicensees of products claimed in the lice obligations continuing at a reduced rate for a period of time a obligations. We may terminate either agreement at any time be

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may also be terminated by Salk in the event of a material brea

Government Regulation

The preclinical studies and clinical testing, manufacture, sales, among other things, of our protein therapeutic candidat authorities in the United States and other countries. In the Un Food, Drug, and Cosmetic Act and other laws, including, in t ACE-536, and dalantercept to be regulated by the FDA as bid as proteins intended for therapeutic use. Protein therapeutics the FDA prior to being marketed in the U.S. Manufacturers of FDA requirements, both before and after product approval, madministrative or judicial sanctions, including FDA refusal to partial suspension of production or distribution, fines and/or of production or distribution, fines and/or of the same support of the

The steps required before a biologic may be approved for

completion of preclinical laboratory tests Practices, or GLPs, and other applicable

submission to the FDA of an Investigatio clinical trials may commence;

completion of adequate and well-controll establish that the biological product is "sa for a chemical drug product for its intend

submission to the FDA of a BLA:

satisfactory completion of an FDA pre-approduced to assess compliance with appli

FDA review of the BLA and issuance of

Preclinical studies include laboratory evaluation of prod potential safety and efficacy of the biologic candidate. Preclin GLPs. The results of the preclinical tests, together with manu IND. Some preclinical testing may continue even after the IN will also include a protocol detailing, among other things, the the effectiveness criteria to be evaluated if the first phase or p will automatically become effective 30 days after receipt by thold because of its concerns about the drug candidate or the c sponsor and the FDA must resolve any outstanding concerns

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All clinical trials must be conducted under the supervision must be conducted under protocols detailing the objectives of exclusion criteria and the safety and effectiveness criteria to be progress reports detailing the status of the clinical trials must serious and unexpected adverse reactions, any clinically import the protocol or investigator's brochure, or any findings from exposed to the drug. An institutional review board, or IRB, at protocol before a clinical trial commences at that institution, a provided to each research subject or the subject's legal representations.

Clinical trials are typically conducted in three sequential same drug candidate within the same phase of development in limited number of patients, but are usually conducted in healt appropriate, for absorption, metabolism, distribution, excretion

Phase 2 usually involves trials in a larger, but still limite specific, targeted indications to determine dosage tolerance a risks.

Phase 3 trials are undertaken to further evaluate clinical patient population at geographically dispersed clinical trial si any specific time period, if at all, with respect to any of our p results from later trials. Furthermore, the FDA or the sponsor the subjects or patients are being exposed to an unacceptable its institution if the clinical trial is not being conducted in acc with unexpected serious harm to patients.

The results of the preclinical studies and clinical trials, to and composition of the product, are submitted to the FDA as indication. Under the Prescription Drug User Fee Act, as re-a BLA, as well as annual fees for commercial manufacturing es application that requires clinical data, such as a BLA, for the certain limited deferrals, waivers, and reductions that may be for approval is reviewed for administrative completeness and BLA is found complete, the FDA will file the BLA, triggerin incomplete or not properly reviewable at the time of submissi within six months after the application is accepted for filing a whereupon a review decision is to be made. The FDA, however goals are subject to change from time to time. Further, the ou

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but a "complete response letter" that describes additional wor BLA, the FDA may inspect the facility or facilities at which to complies with cGMPs. The FDA may deny approval of a BL additional testing or information, which can extend the review granted. If a product is approved, the approval may impose li warning statements be included in the product labeling, may approval, and may impose restrictions and conditions on product may be marketed for other uses or before certain mar surveillance to monitor the safety or efficacy of a product is r standards is not maintained or if safety or manufacturing probables approved that could delay or prevent regulatory approach the safety or prevent regulatory approach is safety or prevent regulatory approach in the safety or prevent regulatory approach is safety or prevent regulatory approach in the safety or prevent regulatory approach is safety or prevent regulatory approach in the safety or prevent regulatory approach is safety or prevent regulatory approach in the safety or prevent regulatory approach is safety or prevent regulatory approach in the safety or prevent regulatory approach is safety or prevent regulatory approach in the safety or prevent regulatory approach is safety or prevent regulatory approach in the safety or prevent regulatory approach is safety or prevent regulatory approach in the safety or prevent regulatory approach is safety or prevent regulatory approach in the safety or prevent regulatory approach is safety or prevent regulatory approach in the safety or prevent regulatory approach is safety or prevent regulatory approach in the safety or prevent regulatory approach is safety or prevent regulatory approach in the safety or prevent reg

As part of the recently-enacted Patient Protection and A. Innovation Act of 2009, or the BPCI, a statutory pathway has and possibly interchangeable with, earlier biological products manufacturers of original reference biological products are graphed the United States. The objectives of the BPCI are conceptuall 1984, commonly referred to as the "Hatch-Waxman Act", whimplementation of an abbreviated approval pathway for biological 2010, the FDA held a hearing to receive comments from hearing in 2010, the FDA, in February 2012 and February 20 scientific, quality and procedural issues relevant to an abbreviation bearing in 2010, the FDA in February 2012 and February 20 scientific, quality and procedural issues relevant to an abbreviation one of our products could have a material adversard may be priced significantly lower than our products.

Both before and after the FDA approves a product, the necomprehensive regulatory oversight. For example, quality correquirements, and the FDA periodically inspects manufacturic continue to spend time, money and effort to maintain cGMP of the continue to spend time, money and effort to maintain cGMP of the continue to spend time, money and effort to maintain cGMP of the continue to spend time, money and effort to maintain cGMP of the continue to spend time, money and effort to maintain cGMP of the continue to spend time.

Orphan Drug Act

The Orphan Drug Act provides incentives to manufacture than 200,000 persons in the United States at the time of application before submitting a BLA. Orphan drug designation does not approval process. If a product that has orphan drug designation designation, the holder of the approval is entitled to a seven-y limited circumstances. For example, a drug that the FDA con

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superior to, or different from, another approved orphan drug, during the seven-year exclusive marketing period. In addition sufficient quantities of their orphan drugs to meet the needs of for the drug. ACE-536 has orphan drug designation in the Un FDA has granted orphan designation for sotatercept for the tr

Legislation similar to the Orphan Drug Act has been ena available for therapies addressing chronic debilitating or life-financially not viable to develop. The market exclusivity peri the fifth year, available evidence establishes that the product market exclusivity may be extended to 12 years if sponsors of the EMA.

Expedited Review and Approval

The FDA has various programs, including Fast Track, postule process for reviewing drugs, and/or provide for the approximore of these programs, the FDA may later decide that the drawiew or approval will be shortened. Generally, drugs that any those with the potential to address unmet medical needs and to track is a process designed to facilitate the development and conditions and fill unmet medical needs. Priority review is dewhere no adequate therapy exists an initial review within six and priority review do not affect the standards for approval, to Fast Track designated drug and expedite review of the application approval for a new drug that is intended to treat a serie based on a surrogate endpoint. A surrogate endpoint is a labor representing a clinically meaningful outcome. As a condition accelerated approval perform post-marketing clinical trials to trial.

In the Food and Drug Administration Safety and Innova the FDA to utilize innovative and flexible approaches to the a issue related draft guidance within a year after the law's enact published a draft Guidance for Industry entitled, "Expedited I FDA programs that are intended to facilitate and expedite dex to concluding that a drug is a candidate for these expedited do and priority review programs discussed above, the FDA also request for Breakthrough Therapy designation should be subr

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as an amendment to an IND. FDA has already granted this de Therapy designated drugs.

Pediatric Exclusivity and Pediatric Use

Under the Best Pharmaceuticals for Children Act, or BP submits information requested in writing by the FDA, or a W FDA may not issue a Written Request for studies on unapprouse of a drug in a pediatric population, or part of the pediatric

We have not received a Written Request for such pediatric in the future. To receive the six-month pediatric market exclurequested studies in accordance with a written agreement with accepted scientific principles, and submit reports of the studies the labeling if the FDA determines that such information will that the studies were conducted in accordance with and are reas appropriate, and that the reports comply with the FDA's fill

In addition, the Pediatric Research Equity Act, or PREA new active ingredient, new indication, new dosage form, new BLAs and supplements thereto must contain a pediatric asses must include the evaluation of the safety and effectiveness of support dosing and administration for each pediatric subpopu a deferral of pediatric studies for some or all of the pediatric that the drug or biologic is ready for approval for use in adult needs to be collected before the pediatric studies begin. After submit the required assessment, keep a deferral current or fail

As part of the FDASIA, Congress made a few revisions both laws permanent.

Reimbursement

In both domestic and foreign markets, sales and reimbur costs of such products will be covered by third-party payors, organizations. These third-party payors are increasingly chall to manage costs. The containment of healthcare costs has bee focus in this effort. Governments have shown significant inte restrictions on reimbursement and requirements for substituti and adoption of more restrictive policies in jurisdictions with addition, there is significant uncertainty regarding the reimbur

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healthcare products. We may need to conduct expensive phar products. If third-party payors do not consider our products to products after approved as a benefit under their plans or, if the a profitable basis.

Within the United States, if we obtain appropriate approseek approval and coverage for those products under Medicai and also seek to sell the products to federal agencies.

Medicaid is a joint federal and state program that is adm Medicaid Drug Rebate Program, manufacturers are required to The amount of the rebate for each product is set by law and n inflation.

Medicare is a federal program administered by the feder disabilities. Medicare Part D provides coverage to enrolled M administered by a physician). Medicare Part D is administere plan establishes its own Medicare Part D formulary for prescritime-to-time.

Medicare Part B covers most injectable drugs given in a hospital outpatient departments and doctors offices. Medicare have the responsibility of making coverage decisions. Subject covered drugs based on a percentage of manufacturer-reporter

Drug products are subject to discounted pricing when purparticipation is required for a drug product to be covered and Part B and the PHS pharmaceutical pricing program. FSS pricis intended to not exceed the price that a manufacturer charge purchased by the Veterans Administration, Department of De TRICARE retail pharmacy program), Coast Guard, and PHS subject to an additional discount if pricing increases more that

To maintain coverage of drugs under the Medicaid Drug purchasers under the PHS pharmaceutical pricing program. P of financially needy patients, community health clinics and o

The American Recovery and Reinvestment Act of 2009 different treatments for the same illness. A plan for the resear for Healthcare Research and Quality and the National Institut expenditures will be made to Congress. Although the results a policies for public or private

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payors, it is not clear what effect, if any, the research will hav to treat is the subject of a study. It is also possible that compared adversely affect the sales of any of our approved protein there compared to other available therapies, they may not cover ou be sufficient to allow us to sell our products on a profitable by

The United States and state governments continue to protect the United States Congress enacted the Patient Protection and includes changes to the coverage and payment for drug production of the state level could further limit reimbursement for photographs.

Outside the United States, ensuring adequate coverage a pharmaceuticals is subject to governmental control in many of the receipt of regulatory marketing approval for a product and our protein therapeutic candidates or products to other available delays in our commercialization efforts. Third-party payors a third-party payors limit reimbursement for newly-approved hare also causing governments to consider or implement various rebates. If budget pressures continue, governments may implet the price we might establish for products that we may develop There can be no assurance that any country that has price con reimbursement and pricing arrangements for any of our products.

Foreign Regulation

In addition to regulations in the United States, we will be sales and distribution of our protein therapeutic candidates. We obtain approval from the comparable regulatory authorities of commence clinical trials or market products in those countries trials, product licensing, pricing and reimbursement vary great FDA approval.

Certain countries outside of the United States have a proprior to the commencement of human clinical trials. In Europ competent national health authority and to independent ethics Once the CTA is approved in accordance with a country's reqclinical trials must be conducted in accordance with good clin

Under European Union regulatory systems, a company r decentralized procedure. The centralized procedure is compucontaining

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new active substances for specific indications such as the treadesignated orphan medicines, and optional for other medicine application is submitted to the European Medicines Agency vand a favorable opinion typically results in the grant by the European Union member states within 67 days of receipt of the renewed is usually valid for an unlimited period. The decentre based on an assessment of an application performed by one mapproval procedure, an applicant submits an application, or distates. The reference member state prepares a draft assessment application. Within 90 days of receiving the reference member approve the assessment report and related materials. If a memer eventually referred to the European Commission, whose deci

As in the United States, we may apply for designation of European Union before the application for marketing authorizincluding up to 10 years of market exclusivity for the approve effective or otherwise clinically superior to the orphan design

Additional Regulation

We are also subject to regulation under the Occupational Control Act, the Resource Conservation and Recovery Act are govern our use, handling and disposal of various biological at and development involves the controlled use of hazardous mathandling and disposing of such materials comply with the state contamination or injury from these materials cannot be computationally damages that result and any such liability could exceed our results.

There have been a number of federal and state proposals products, government control and other changes to the health what actions federal, state or private payers for medical good legislation. We cannot predict the effect medical or healthcar reforms will not have a material adverse effect.

Manufacturing

We currently manufacture drug substance for our preclin dalantercept. We manufacture material compliant to U.S. and corporate headquarters in Cambridge, Massachusetts. We have and other protein therapeutics.

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Our manufacturing facility is based on single use, disposition process, minimizing the need for cleaning and stern consists of four independent clean rooms totaling 4,000 squar and has space for two additional 1,000 liter bioreactors.

Approximately 20 fulltime employees focus on our procinvestment in manufacturing capabilities allows us to advance portfolio flexibility than if we used a contract manufacturer. Tretain control over the process and provides an ability to bala before clinical data are available.

Our manufacturing capabilities encompass the full manuintegrated with our project teams from discovery through dev molecules into manufacturing. We have designed our manufafor the manufacture of different protein therapeutic candidate

We manufacture our protein therapeutic candidates using based on a standardized process modified for each of our prothamster ovary cells that have been genetically engineered to using industry standard methods, which include affinity chronhave been successfully transferred to commercial facilities be characterization on sotatercept between our Phase 2 material

We believe that we can scale our manufacturing process of our protein therapeutic candidates. For our early phase pro preclinical testing and Phase 1 and Phase 2 clinical developm intend to transfer the process for Phase 3 production to Celge transferred the manufacturing process for sotatercept to Celge commercial supply of sotatercept and ACE-536. We intend to clinical trials.

Employees

As of September 30, 2013, we had 78 full-time employe whom have Ph.D. or M.D. degrees. We have no collective ba stoppages. We consider our relations with our employees to be

Facilities

Our corporate, research and development, manufacturing approximately 94,500 square feet of office and laboratory spa approximately \$0.4 million. We have sublet approximately 20.4 million.

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in September 2018 and one lease expires in May 2015. We be substitute space would be available if needed.

Legal Proceedings

On October 18, 2012, the Salk Institute for Biological Structure for Suffolk County, alleging that we breached one of or us with a license with respect to certain of Salk's U.S. patents licensing agreement, we owed Salk a greater share of the upforcegarding ACE-031 and a share of the upfront payment and d collaboration agreement with Celgene regarding ACE-536. S 15% share of future development milestone payments receive additional amounts are due to Salk and that we have complied

We moved to dismiss the complaint on December 3, 201 Acceleron answered the complaint and asserted patent invalid action on March 28, 2013 to the United States District Court stipulation as to certain patent issues raised in the action, and conference on May 30, 2013, and the parties are in the process intend to defend our position vigorously.

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Executive Officers, Significant Employees and Directors

Below is a list of the names, ages as of January 1, 2014 a serve as our executive officers and directors as of the date of directors will be divided into three class of directors, with the below serves in the class indicated. Subject to any earlier resi incorporation and by-laws, our Class I directors will serve un the 2015 annual meeting of stockholders; and our Class III di

Name	Age	
John L. Knopf, Ph.D.	61	Chief Exe
Kevin F. McLaughlin	57	Senior Vi
Matthew L. Sherman, M.D.	58	Senior Vi
Steven D. Ertel	44	Senior Vi
Ravindra Kumar, Ph.D.	53	Vice Pres
John D. Quisel, J.D., Ph.D.	42	Vice Pres
Anthony B. Evnin, Ph.D.	72	Director (
Jean M. George	55	Director (
George Golumbeski, Ph.D.	56	Director (
Edwin M. Kania, Jr.	56	Director (
Tom Maniatis, Ph.D.	70	Director (
Terrance G. McGuire	57	Director (
Richard F. Pops	51	Director (
Joseph S. Zakrzewski	51	Director (
John I Knonf Dh D co founded Acceleron in 2003 a		

John L. Knopf, Ph.D. co-founded Acceleron in 2003 and directors from 2003 to 2004, and has served from 2007 to the Research facilities in Cambridge, MA and Vice President of Institute (GI) from 1982 to 1998, where he participated in the for hemophilia, recombinant factor VIII *Recombinate*® and he established a structure-based small molecule discovery group transduction, and is named as an inventor of several patents. It biology at SUNY Buffalo. We believe Dr. Knopf's extensive serve as a member of our board of directors.

Kevin F. McLaughlin joined Acceleron in November 2 most recently served, from 2009 through 2010, as Senior Vic Aptius Education, Inc. and from 2007 through 2009 he worked Mr. McLaughlin held several executive positions with PRAE where he had responsibility for private financings, partnership Later, Mr. McLaughlin became COO, and then President and responsible for negotiating the sale of the company to Glaxos Computervision

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Corporation. Mr. McLaughlin received a BS in business from

Matthew L. Sherman, M.D. joined Acceleron in May 2 served as Senior Vice President and Chief Medical Officer at operations, biostatistics, data management, regulatory affairs, Genetics Institute and Wyeth Pharmaceuticals in various capa Dr. Sherman provided senior oncology and hematology leade therapeutics, including the submission and approval of Mylot of oncology and clinical development and is named as an invinternal Medicine and held various clinical positions at Harva Cancer Institute and Brigham and Women's Hospital. Dr. She and an MD from Dartmouth Medical School.

Steven D. Ertel joined Acceleron in January 2006 and i business development function and currently leads our busines has over 20 years of experience in the biotechnology industry these companies included program management for preclinic market launch of a novel biologic agent, and business develop Bioscience Partners. Mr. Ertel received a BSE in biomedical University of Pennsylvania.

Ravindra Kumar, Ph.D. joined Acceleron in March 20 established and currently leads our discovery research. Previous Pharmaceuticals. At Genetics Institute, Dr. Kumar was a key biology. Following the integration of discovery functions from Biological Chemistry group. Dr. Kumar is the author of sever inventor of several patents. Dr. Kumar received his BS in chehis Ph.D. from University of New Brunswick and he complet NY.

John D. Quisel, J.D., Ph.D. joined Acceleron in Octobe joining us, Dr. Quisel worked at the Boston office of Ropes & law firms, Dr. Quisel has, through strategic in-licensing and platform focused intellectual property portfolios for numerou aspects of biotechnology law, including the negotiation of int prosecution and litigation. Dr. Quisel received an AB in biology from the Massachusetts Institute of Technology and

Anthony B. Evnin, Ph.D. has served as a member of our firm, where he focuses largely on life sciences investments at manager of

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business development at Story Chemical Corporation and a reboards of AVEO Pharmaceuticals, Infinity Pharmaceuticals, five years, Dr. Evnin served as a director of Altea Therapeuti Inc., Icagen, Inc., Memory Pharmaceuticals Corp., Pharmos Corp., P

Jean M. George has served as a member of our board of Advanced Technology Ventures (ATV), and, concurrently sin Management. She joined ATV in 2002 and serves as the firm Ms. George was a Director at BancBoston Ventures, where sl Microbia, Inc., Syntonix Pharmaceuticals, Inc. and Neuromet 1988 to 1998, where she held a variety of operational roles in President of Global Sales and Marketing. She also worked as currently a Director of Calithera Biosciences, Hydra Bioscier Therapeutics and Catabasis Pharmaceuticals, Inc. Ms. George was named a member of the Scientific Advisory Board for the University of Maine and an MBA from Simmons College experience in the life sciences and therapeutic device industri

George Golumbeski, Ph.D. has served as a member of Vice President of Business Development for Celgene Corpor including identification and evaluation of opportunities, structure management. At Celgene, these activities are focused primari Dr. Golumbeski served as the CEO of Nabriva Therapeutics Development, Licensing and Strategy for Novartis-Oncology of collaboration agreements which bolstered the development Pharmaceuticals and at Schwarz Pharma, where he led the efficient Dr. Golumbeski received a BA in biology from the University believe that Dr. Golumbeski's experience as an officer of other research and development and corporate leadership positions.

Edwin M. Kania, Jr. has served as a member of our bo the Chairman of Flagship Ventures, a Boston-based

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venture capital firm that he co-founded and that also manages funds raised by OneLiberty Ventures. Prior to co-founding Fl predecessor firm, Morgan Holland Ventures which he joined Mr. Kania has also served on the boards of Aspect Medical, Fi investment experience covers over 100 companies, and he ha companies as the founding, lead or co-lead investor, and has a BS in physics from Dartmouth College and an MBA from Fi investing in, guiding and leading start-up and early phase companies as the founding and leading start-up and early phase companies to the founding start-up and early phase companies as the founding and leading start-up and early phase companies to the founding start-up and early phase companies to

Tom Maniatis, Ph.D. co-founded Acceleron in 2003 an Advisory Board since 2003. Since 2010 he has been a Profess Columbia University College of Physicians and Surgeons. Pr where he studied the mechanisms of transcription and RNA s Pharmaceuticals, Inc. Dr. Maniatis is also a co-founder of Ge Dr. Maniatis is a member of the U.S. National Academy of S the Eli Lilly Research Award in Microbiology and Immunolog French National Academies of Science, and the 2012 Lasker-BA in biology, an MS in chemistry from the University of Cowe believe Dr. Maniatis's extensive experience and knowledge a member of our board of directors.

Terrance G. McGuire has served as a member of our b is currently one of their general partners. Prior to starting Polinvesting in early stage medical and information technology of Alector, Quantum Designs, Arsenal Medical/480 Biomedical NextCode, Pulmatrix, SustainX, and Trevena. He has served Technologies, GlycoFi, Akamai Technologies, Aspect Medic Mr. McGuire is the former chairman of the National Venture Dartmouth College, and a member of the boards of The David Technology and The Arthur Rock Center for Entrepreneurshiften Hobart College, an MS in engineering from The Thayer believe that Mr. McGuire's extensive experience as a venture years of experience helping companies evolve from the start-board of directors.

Richard F. Pops has served as a member of our board of and Chairman of the board of Alkermes plc, the parent compared Chairman of the Board of Alkermes, from 2007 to 2009 leads to 20

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and from 1991 through 2007 he served as the Chief Executive Biosciences, Inc., Epizyme Inc., the Biotechnology Industry (PhRMA). He has previously served on the board of directors 2009. Mr. Pops also served on the board of directors of Relia GlaxoSmithKline in 2007, and on the advisory board of Polar Fellows from 2002 through June 2012. Mr. Pops received a Experience and industry knowledge qualify him to serve as a

Joseph S. Zakrzewski has served as a member of our been Chairman and Chief Executive Officer of Amarin Corpo Executive Officer of Xcellerex. From 2005 to 2007, Mr. Zakroverseeing the launch of Omacor®, a drug to treat elevated tr positions at Eli Lilly and Company including as Vice Preside Mr. Zakrzewski served as a Venture Partner with OrbiMed in Amarin and Insulet Corporation and has also served on the bound Mr. Zakrzewski received a BS in Chemical Engineering and Finance from Indiana University. We believe that Mr. Zakrzecompanies, as well as Mr. Zakrzewski's service on boards of our board of directors.

Board Composition

Our board of directors is currently comprised of 9 membres Messrs Evnin, Golumbeski, Kania, Maniatis, McGuire, Pops of directors were elected in compliance with the provisions of terminated upon the closing of our initial public offering on Stregarding the election of our directors. See "Certain Relations successors have been elected and qualified or until their earlied directors or executive officers.

Board Committees

Our board of directors has three standing committees: th governance committee.

Audit Committee

Our audit committee is composed of Anthony B. Evnin, chairman of the committee. Our board of directors has determ requirements of Rule 10A-3 under the Exchange Act and the Joseph S. Zakrzewski is an "audit committee financial expert

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meaning of the Securities and Exchange Commission, or SEC responsibilities include:

> appointing, approving the compensation independent registered public accounting pre-approving audit and permissible nonregistered public accounting firm; responsible for preparing our financial sta matters;

reviewing the internal audit plan with the

reviewing and discussing with management financial statements and related disclosur

reviewing the adequacy of our internal co

establishing policies and procedures for t

recommending, based upon the audit com public accounting firm, whether our audit

monitoring our compliance with legal and

preparing the audit committee report requ

viewing all related party transactions for

reviewing and discussing with management scripts.

Compensation Committee

Our compensation committee is composed of Edwin M. as chairman of the committee. Our board of directors has dete defined under the applicable listing standards of NASDAQ. T

annually reviewing and approving corpor

evaluating the performance of our chief e approving the compensation of our chief

reviewing and approving the compensation

appointing, compensating and overseeing the compensation committee;

conducting the independence assessment counsel or other advisor retained by the c

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reviewing and establishing our overall material overseeing and administering our equity of reviewing and approving our equity and it the grant of such equity-based awards; reviewing and making recommendations

reviewing and discussing with management statement or Annual Report on Form 10-1

annually reviewing and reassessing the ac

NASDAQ;

Nominating and Corporate Governance Committee

Our nominating and corporate governance committee is with Ms. George serving as chairman of the committee. Our governance committee is "independent" as defined under the committee's responsibilities include:

establishing procedures for identifying ar stockholders;

identifying individuals qualified to become recommending to the board of directors to committees;

articulating to each director what is expectand responsibilities;

developing and recommending to the boa

reviewing and recommending to the boar

reviewing and recommending to the boar of directors;

reviewing and assessing the adequacy of approval;

consider and report to the board of director provide for new director orientation and comperforming an evaluation of the performation overseeing the evaluation of the board of Our board of directors may establish other committees from the service of the s

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Compensation Committee Interlocks and Insider

None of the members of our compensation committee had None of our executive officers currently serves, or in the past committee of any entity that has one or more executive officer transactions between us and members of our compensation of Related Party Transactions."

Code of Business Conduct and Ethics

We have adopted a code of business conduct and ethics responsible for financial reporting. Our code of business cond the code, or any waivers of its requirements, on our website.

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EXECUTIVE OFFI

Overview

The following discussion relates to the compensation of two most highly compensated executive officers (other than cand Senior Vice President, and John D. Quisel, J.D., Ph.D., of this prospectus as our named executive officers. Each year, of executive officers, including our named executive officers. Of team of key executives and to align the compensation of our of short- and long-term strategic financial goals, which we belie

Elements of Executive Compensation

The compensation of our named executive officers cons are made available to all salaried employees. Our named executerminations of employment and certain change in control tra

Base Salaries. Base salaries for our named executive of with his respective experience and contributions to the compactompensation committee, subject to review by our board of datakes factors into account such as each officer's experience are surveys of compensation paid by comparable companies, and factor. For fiscal 2013, our board of directors approved a base increase of 4.5% and 3.0%, respectively, from the base salary

Annual Cash Bonuses. Our annual cash bonus prografiscal 2013, the target annual bonus as a percentage of base sa 30%, respectively.

At the beginning of fiscal 2013, our compensation committat included key strategic and financial goals of the company manufacturing, business development and the achievement of committee met and evaluated the performance of the company compensation committee recommended payment of 2013 and above the target level for members of our management team, performance of the company, the achievement of the company completion of important financing activities in fiscal 2013, in directors approved the recommendations of our compensation 2013 equal to \$300,000, \$171,315 and \$143,685, respectively base salary.

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Equity Awards. Our named executive officers participed which we refer to as the "2003 Plan". See "2003 Plan" below participate in our Acceleron Pharma Inc. 2013 Equity Incenti Incentive Plan" below for additional details about the 2013 E Plan, including those made to our named executive officers, gare subject to time-based vesting generally vest either in quarte option after one year and thereafter continue to vest in quarte employment. During fiscal 2013, each of Drs. Knopf, Sherma purchase 110,000, 29,000 and 29,000 shares of our common years. Stock option awards serve to align the interests of our the value of our common stock appreciates after grant. They agreements with certain members of senior management, including the stock awards will vest automatically as of the date of restricted stock awards may vest upon certain terminations of

Benefits. We provide modest benefits to our named explan and basic health and welfare benefit coverage, are available.

Employment Agreements and Change of Control Agree agreements with us that include severance, change of control arrangements provide our executives with security that will lithat could be in the best interests of our stockholders. We also order to attract and retain high-quality executive officers.

Summary Compensation Table

The following table sets forth information about certain year.

Name and Principal Position

Name and Timelpart Ostron	1 64
John L. Knopf, Ph.D.	20
Chief Executive Officer and President	20
Matthew L. Sherman, M.D.	20
Chief Medical Officer & Senior Vice	20
President	
John D. Quisel, J.D., Ph.D.	20
General Counsel, Vice President and	20
Secretary	

(1) Salaries include amounts contributed by the named

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- (2)
 Amounts shown reflect the grant date fair value of the Financial Accounting Standards Board, Account amounts exclude the value of estimated forfeitures, amount included in the table assumes the highest learn amounts are included in Note 11 to our financial state.
- (3)
 Amounts shown reflect the cash bonus amount paid based on company performance.
- (4)

 Represents income imputed to Dr. Knopf in connectinto by him and the Company, plus accrued interest

Outstanding Equity Awards at Fiscal Year-End

The following table sets forth information regarding equ

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	Number of Securities
	Underlying
	Unexercised
	Options (#)
Name	Exercisable
John L. Knopf	12,500(
	12,500(
	100,000(
	262,500(
	46,876(
	65,625(
	25,000(
	42,969(
	3,125(
Matthew L. Sherman	59,766(
Matthew L. Sherman	32,812(
	35,000(
	28,125(
	6,250(
	6,250(
John D. Quisel	27,500(
• • • • • • • • • • • • • • • • • • •	2,500(
	7,500(
	12,500(
	25,000(
	46,875(
	9,374(
	9,374(
	3,125(

Number of

- (1)

 Reflects time-based options to purchase shares of o first anniversary of the vesting commencement date subject to the executive's continued employment.
- (2)

 Reflects time-based options to purchase shares of o subject to the executive's continued employment.
- (3)

 Reflects time- and performance-based options gran
 the shares subject to the option on the date that is th
 condition related either to a financial goal or clinica
 years on each three-month anniversary of the initial

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extent unvested, the option will fully vest on Septer

- (4)

 Reflects time- and performance-based options gran
 the shares subject to the option on the date that is the
 condition related to a financial goal and that contine
 anniversary of the initial vesting date. To the extent
 Dr. Knopf's continued employment. On December
 on September 24, 2013. As a result, 1/12th of the sh
 the shares will vest on each of the subsequent eleve
- (5)

 The exercise price of the stock options was not less determined by our board of directors based, in part, public offering. Stock options granted in fiscal 2011 equal to the closing price of a share of our common
- (6) All stock options have a 10-year term measured fro

Retirement Benefits

We do not maintain any qualified or non-qualified defin executive officers. We offer a tax-qualified retirement plan, we executive officers. Our 401(k) plan permits eligible employed limitations imposed by the Internal Revenue Service. Employ plan. We may, but are not required to, make discretionary may employees under this plan. We made matching contributions on behalf of our named executive officers.

Employment Agreements

We have entered into amended and restated employment 2013 base salary of \$400,000, \$380,662 and \$319,300, respectionus based on performance goals in accordance with our anabenefits upon a qualifying termination of the executive's emp

Change of Control. At the time of the consummation Sherman and Quisel, of any unvested stock options then held amended and restated employment agreement (referred to as

Termination of Employment Without Cause or for Good consummation of a change of control, the executive's employ terminates his employment for good reason (as such terms are lump sum payment equal to the product of 1.5 times, in the ca

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times, in the case of Drs. Sherman and Quisel, (x) the sum of bonus for the year in which the termination occurs, (2) 100% such termination will fully vest, and (3) if the executive electrand/or dental plans in which the executive was participating puthe full premium cost of that participation for 18 months, in the following the date the executive's employment terminates or, new employer. We will also pay the executive any base salary the termination date.

Termination of Employment Without Cause or for God or the executive terminates his employment for good reason (circumstances other than as described in the preceding paragr 18 months, in the case of Dr. Knopf, or 12 months, in the case unvested stock option awards the executive holds at the time that were granted on or prior to the amendment date will vest 12 months, nine months or six months, in the case of each of employment, and (3) if the executive elects under COBRA or in which the executive was participating prior to such termina cost of that participation for 18 months, in the case of Dr. Kne executive any base salary earned but not paid and any vacation

Termination of Employment Due to Death or Disability disability, all unvested stock options then held by the executive termination. In the event of such a termination of employment continuation of the executive's base salary for one year follow time the executive's base salary would otherwise have been p disability insurance benefits, if any, actually paid to the executive vacation time accrued but not used, in each case as of the termination of the properties of the termination of the properties of the termination of the properties of the proper

Severance Subject to Release of Claims and Compliand severance payments or other benefits under the employment a our favor and the executive's continued full performance of h Information Agreement relating to confidentiality, noncompe

Other Termination of Employment. If the executive's executive for good reason, or due to the executive's death or and any accrued but not used vacation as of the termination d

280G Gross-up. In the event that a change in ownersh 1986, as amended, or the Code, and the regulations

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thereunder, occurs on or before the second anniversary of the employment agreement or otherwise constitutes an "excess preservative an additional amount that, after the imposition of at the excess parachute payment. If the change in ownership or of the payments made pursuant to the employment agreement to receive an amount of such payments reduced so that no postherwise payable to the executive under the employment agreement whichever amount results in the greater amount payable to the

Executive Loan

We and Dr. Knopf are parties to a Secured Promissory N we made a loan to Dr. Knopf with a principal balance of \$200 including principal and accrued and unpaid interest on the no in connection with our initial public offering.

2013 Director Compensation

The following table sets forth information concerning the additional compensation for his service as a director, and, contain employee during 2013 is included in the "Summary Comp

	Fees Paid in	Option Awa
Name	Cash (\$)(1)	(\$)(2)(3)
Anthony B. Evnin	13,438	308
Jean George	12,500	308
Edwin M. Kania	11,250	308
Tom Maniatis	25,000	308
Terrance G. McGuire	9,688	308
Richard F. Pops	31,250	308
Joseph S. Zakrzewski	30,625	308

(1) Amounts represent annual cash compensation for so

(2)
As of December 31, 2013, our directors held the fo Mr. Kania, 20,000; Mr. McGuire, 20,000; Dr. Man not hold any stock options or other stock awards as

(3)
Amounts shown reflect the grant date fair value of Accounting Standards Board, Accounting Standard exclude the value of estimated forfeitures. Assumpt financial statements included elsewhere in this pros

Our board of directors has adopted a non-employee directhat enables us to attract and retain, on a long-term basis,

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high caliber non-employee directors. Under the policy, all no

Board of Directors:

All non-employee members Additional retainer for Lead Independent Director

Audit Committee:

Chairman

Non-Chairman members

Compensation Committee:

Chairman

Non-Chairman members

Nominating and Corporate Governance Committee:

Chairman

Non-Chairman members

Under our non-employee director compensation policy, eligible to receive a grant of stock options to purchase 20,000 she first becomes a non-employee director, which will vest quanon-employee director will be eligible to receive an annual of on the first anniversary of the grant date. The options will be common stock on the date of grant. In connection with the coand increased duties of the board, in fiscal year 2013, each be 20,000 shares of our common stock.

Equity and Incentive Plans

2003 Plan

The 2003 Plan, which became effective December 17, 2 for the grant or sale of restricted stock to key employees and opinion of the compensation committee, are in a position to c of the 2003 Plan is not a complete description of all provision

The 2003 Plan is administered by our compensation condetermine the terms and conditions of all awards, including the exercisable.

Following our initial public offering in September 2013, described below.

Authorized Shares. Subject to adjustment, the maximu awards under the 2003 Plan is 4,937,500 shares. Shares of ou shares of our common stock or previously issued shares acqu

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Stock Options. The compensation committee determine value of a share of our common stock on the date of grant. Unstock options will immediately terminate upon the participant three months or one year (in the case of death) (or, in each can determine that the cessation of a participant's employment retermination of stock options, all stock options then held by the whether or not vested.

Restricted Stock. The compensation committee may g exercise of options to purchase common stock) subject to the compensation committee. A participant will have all the right participant under the 2003 Plan. Unless the compensation cor any reason, including death, the company will have the right participant's original purchase price, if any, for such shares. It of employment.

Covered Transactions. Unless an award agreement proint which there is an acquiring or surviving entity, the compensus outstanding awards by the acquiring or surviving entity. If the award agreement, each stock option will vest and become full upon consummation of the covered transaction. In the case of delivered, exchanged or otherwise paid in respect of such stock subject to such restrictions as the compensation committee deconsolidation, merger or similar transaction in which the compassets or a dissolution or liquidation of our company.

2013 Equity Incentive Plan

Our board of directors adopted the 2013 Equity Incentive awards will be granted under the 2013 Equity Incentive Plan. Plan. This summary of the 2013 Equity Incentive Plan is not qualified in its entirety by reference to the 2013 Equity Incentive Plan is not plan in the entirety by reference to the 2013 Equity Incentive Plan is not plan in the entirety by reference to the 2013 Equity Incentive Plan is not plan in the entirety by reference to the 2013 Equity Incentive Plan is not plan in the entirety by reference to the 2013 Equity Incentive Plan is not plan in the entire Plan in the entirety Blan in the entirety

Plan Administration. The 2013 Equity Incentive Plan the authority to, among other things, interpret the 2013 Equity under the 2013 Equity Incentive Plan, and to do all things necompensation committee's determinations under the 2013 Eq.

Authorized Shares. Subject to adjustment, the maximus awards under the 2013 Equity Incentive Plan is currently 2,60 available for grant under the 2003 Plan on the date the 2013 I 2014 pursuant to the annual adjustment described below. The

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shares of our common stock available for issuance under the January 1st, from January 1, 2014 through January 1, 2023, in

3,150,000 shares;

4.0% of the outstanding shares of our cor and

such other amount as our board of director

On January 1, 2014, the number of shares of our common there were 2,089,945 shares of our common stock available friesued under the 2013 Equity Incentive Plan may be authorized us. Any shares of our common stock underlying awards that a issuance of stock will again be available for issuance under the

Individual Limits. The maximum number of shares of our common stock subject to stock appreciation rights that maximum number of shares of our common stock subject to a shares.

Eligibility. Our compensation committee will select partial our affiliates who are in a position to contribute significantly incentive stock options, or ISOs, is limited to employees of the

Types of Awards. The 2013 Equity Incentive Plan prounrestricted stock, stock units, performance awards and other Dividend equivalents may also be provided in connection with

Stock options and stock appreciation right appreciation right is to be measured, may percent shareholder, 110% of the fair may committee will determine the time or time terms on which such awards remain exercises.

Restricted and unrestricted stock. A restricted and unrestricted stock award is not s

Stock units. A stock unit award is denom cash measured by the value of the shares satisfaction of performance conditions or

Performance awards. A performance awards specified performance criteria.

Vesting. Our compensation committee has the authorit vesting or exercisability of any award.

Termination of Employment. Our compensation commaward. Unless otherwise provided by our compensation comm

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in an award agreement, upon a termination of a participant's of requiring exercise will terminate and all other unvested award held by the participant will remain outstanding for three mondate, if earlier. All stock options and stock appreciation rights employment will immediately terminate upon termination of Plan or occurs in circumstances that would have constituted getermination of the Administrator.

Performance Criteria. The 2013 Equity Incentive Plan subject to achieving, "performance objectives". Performance "performance-based compensation" for purposes of Section 1 measure or measures of performance relating to any or any core indices and determined either on a consolidated basis or, as geographical basis or in combinations thereof): sales; revenue interest, taxes, depreciation, amortization or equity expense, on equity, investment, capital, capital employed or assets; one basis; net income; borrowing levels, leverage ratios or credit sales of particular products or services; customer acquisition strategic alliances, licenses or collaborations; spin-offs, split-(issuance of debt or equity) or refinancings; manufacturing or regulatory or other filings or approvals or other product development.

To the extent consistent with the requirements for satisfy compensation committee may provide in the case of any awar objectives applicable to an award will be adjusted in an object restructurings, discontinued operations, mergers, acquisitions effects of tax on accounting changes, each as defined by U.S. of such award that affect the applicable performance objective

Transferability. Awards under the 2013 Equity Incent distribution, unless (for awards other than ISOs) otherwise pr

Covered Transactions. In the event of a consolidation assets or our dissolution or liquidation, our compensation concutstanding awards, for new grants in substitution of outstanding awards, in each case on such terms at committee may otherwise determine, awards not assumed will automatically be forfeited upon the consummation of such

Adjustment. In the event of a stock dividend, stock spl change in our capital structure that constitutes an equity

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restructuring within the meaning of the Financial Accounting *Compensation Stock Compensation*, our compensation comme be delivered under, and the individual share limits included in number and kind of shares of stock or securities subject to awasuch change. Our compensation committee will also make the events other than those listed above if it determines that such

Amendment and Termination. Our compensation comporterminate the 2013 Equity Incentive Plan as to future grant terms of an award if it would affect materially and adversely expressly provided in the 2013 Equity Incentive Plan or the recommittee at the time the award was granted). Stockholder at extent such approval is required by law, including the Code of

Employee Stock Purchase Plan

Our board of directors adopted an Employee Stock Purc our named executive officers, to acquire shares of our commo are available for issuance under the ESPP. Under the ESPP, epre-specified purchase periods at a price equal to the lesser of the purchase period or 85% of the fair market value of a share prospectus, the initial purchase period under the ESPP has no such initial purchase period will commence.

Acceleron Pharma Inc. Cash Incentive Plan

Our board of directors adopted the Acceleron Pharma In year, annual award opportunities for executive officers, incluthe Cash Incentive Plan. The following summary describes the description of all provisions of the Cash Incentive Plan and is

Administration. The Cash Incentive Plan will be admi authority to interpret the Cash Incentive Plan, and any interprarising under the Cash Incentive Plan will be final and conclusion.

Eligibility. Executive officers and other key employee compensation committee to participate in the Cash Incentive

Awards. Award opportunities under the Cash Incentive period of time following the beginning of, the fiscal year of the Compensation committee will establish the performance criteria are achieved, and such other terms and conditions as a such other terms.

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compensation committee deems appropriate. The Cash Incenperformance-based compensation under Section 162(m) as w qualify as performance-based compensation will be administed.

Performance Criteria. Awards under the Cash Incentic established by our compensation committee. Performance cripurposes of Section 162(m) are limited to the objectively deterable following (measured either absolutely or by reference to an information on a consolidated basis or, as the context permits, on a division thereof): sales; revenues; assets; expenses; earnings before or equity expense, whether or not on a continuing operations or employed or assets; one or more operating ratios; operating in leverage ratios or credit rating; market share; capital expendit services; customer acquisition or retention; acquisitions and collaborations; spin-offs, split-ups and the like; reorganization refinancings; manufacturing or process development; or achievapprovals or other product development milestones.

To the extent consistent with the requirements of Section intended to qualify as exempt performance-based compensations such award be adjusted in an objectively determinable manner discontinued operations, mergers, acquisitions, extraordinary on accounting changes, each as defined by U.S. generally accept that affect the applicable performance criteria.

Payment. A participant will be entitled to payment und the Cash Incentive Plan and the terms of the award. Followin (and, to the extent required by Section 162(m), certify) wheth compensation committee will then determine the actual paymabsolute discretion to reduce (including to zero) the actual payment dates for awards under the Cash Incentive Plan. Our

Payment Limits. The maximum payment to any partic \$1 million.

Recovery of Compensation. Awards under the Cash In participant who receives a payment pursuant to the Cash Inco our compensation committee in an award agreement, pursuant compensation, or as otherwise required by law or applicable states.

Amendment and Termination. Our compensation con amendment will be approved by our stockholders if required Plan at any time.

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CERTAIN RELATIONSH

The following is a description of transactions, since Janu or will exceed \$120,000, and in which any related person had

Indemnification Agreements

We have entered into indemnification agreements with e indemnify these individuals and, in certain cases, affiliates of liabilities that may arise by reason of their service to us or at them as to which they could be indemnified.

Registration Rights Agreement

In connection with our Series F preferred stock financing rights agreement with the holders of all of our then-outstanding entities with which certain of our directors are affiliated. The securities, as defined in the agreement, have the right to dema upon conversion of our preferred stock. These holders may all registration statements that we are otherwise filing. See "Deserous and the preferred stock of the securities of the secution of the securities of the securities of the securities of t

Right of First Refusal and Co-Sale Agreement

In connection with our Series F preferred stock financing refusal and co-sale agreement with the holders of all of our the officers and entities with which certain of our directors are af shares of our common or preferred stock, the seller was required certain conditions and restrictions. This agreement terminated

Voting Agreement

In connection with our Series F preferred stock financing with the holders of all of our then-outstanding shares of prefecertain of our directors are affiliated, with respect to the elect pursuant to the terms of this agreement. This agreement terms

Investor Rights Agreement

In connection with our Series F preferred stock financing agreement with the holders of all of our then-outstanding shawith which certain of our directors are affiliated. Pursuant to well as the right to participate pro rata in any future private financing on September 24, 2013.

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Transactions with Our Executive Officers, Directors and

On March 13, 2013, we repurchased shares of our comm from UBS Juniper Crossover Fund, LLC, an affiliate of Orbil

On January 28, 2008, we entered into a secured promiss 2012, with a principal balance of \$200,000 and an interest rat stock under a pledge agreement dated January 28, 2008. The upon the occurrence of certain corporate events, including the and accrued and unpaid interest on the note was forgiven on a

Related Person Transactions Policy

We have adopted a related person transaction approval p if we want to enter into a transaction with a related person or transaction to determine, based on applicable NASDAQ and board of directors. If pre-approval is required, such matters w directors meeting. We may not enter into a related person trans no further reviews are necessary or that all requisite corporate

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PRIN

The following table sets forth information relating to the or group of affiliated persons, known by us to beneficially ow each of our named executive officers; and all directors and executive officers.

The number of shares beneficially owned by each entity the SEC, and the information is not necessarily indicative of lincludes any shares over which the individual has sole or sharthe right to acquire within 60 days of January 1, 2014 through indicated, and subject to applicable community property laws to all shares of common stock held by that person.

The percentage of shares beneficially owned is compute January 1, 2014. Shares of our common stock that a person hapurposes of computing the percentage ownership of the person percentage ownership of any other person, except with respect Unless otherwise indicated

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below, the address for each beneficial owner listed is c/o John

Name and address of beneficial owner

5% or greater stockholders:

Polaris Venture Partners, and related funds(1)

650 East Kendall Street, 4th Floor

Cambridge, MA 02142

Venrock Partners, and related funds(2)

55 Cambridge Parkway, Suite 100

Cambridge, MA 02142

Advanced Technology Ventures, and related funds(3)

500 Boylston Street, Suite 1380

Boston, MA 02116

Celgene Corporation(4)

86 Morris Avenue

Summit, NJ 07901

Flagship Ventures(5)

1 Memorial Drive

Cambridge, MA 02142

OrbiMed Advisors LLC(6)

601 Lexington Avenue, 54th Floor

New York, NY 10022

Directors and named executive officers:

John L. Knopf, Ph.D.(7)

Anthony B. Evnin, Ph.D.(8)

Jean M. George(9)

George Golumbeski, Ph.D.

Edwin M. Kania, Jr.(10)

Terrance G. McGuire(11)

Tom Maniatis, Ph.D.(12)

Richard F. Pops(13)

Joseph S. Zakrzewski(14)

Matthew L. Sherman, M.D.(15)

John Quisel, J.D., Ph.D.(16)

All executive officers and directors as a group (15 persons)(1

*

Represents beneficial ownership of less than one pe

(1)

Consists of (i) 3,077,388 shares of common stock a Partners IV, L.P. and (ii) 55,846 shares of common Venture Partners Entrepreneurs' Fund IV, L.P. (tog Management 2000, LLC directly or indirectly prov. Polaris Funds. Each of the Polaris Funds has the so held by the applicable Polaris Fund. The respective investment power with respect to the shares held by

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The respective general partners disclaim beneficial proportionate pecuniary interests therein. The mem Members) are also members of Polaris Venture Mamembers of the general partner and North Star Ven share voting and investment powers for the shares I ownership of all such shares held by the funds exce McGuire, a director of the Company, has an assigned deemed to share voting and investment powers with ownership of all the shares held by the funds except

Consists of (i) 414,360 shares of common stock and Partners, L.P. (Venrock Partners), (ii) 2,032,352 sh held by Venrock Associates IV, L.P. (Venrock IV) common stock held by Venrock Entrepreneurs Fun IV, the Venrock Entities). The sole general partner of Venrock Partners is Venrock Partners Managem Management IV, LLC (VEFM4). VM4, VPM and except to the extent of their indirect pecuniary inter VM4, VPM and VEFM4 and as such, he may be dedisclaims beneficial ownership of these shares except

(3) Consists of (i) 2,018,586 shares of common stock a Technology Ventures VII, L.P. (ATV VII), (ii) 81,0 held by Advanced Technology Ventures VII (B), L 2,301 shares of common stock held by Advanced T stock and warrants to purchase 711 shares of comm common stock and warrants to purchase 19,916 sha (vi) 21,543 shares of common stock and warrants to (ATV VI-E) and (vii) 4,128 shares of common stoc (ATV A VII) is the general partner of ATV VII, A authority over the shares held by ATV VII, ATV V are made collectively by Michael A. Carusi, Jean M Wiberg (collectively, the ATV A VII Managing Di beneficial ownership of the shares held by ATV VI interest therein. ATV Associates VI, L.L.C (ATV A dispositive authority over the shares held by ATV collectively by Michael A. Carusi, Steven N. Balof A VI Managing Directors). ATV A VI and each of

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beneficial ownership of the shares held by ATV VI Alliance Associates, L.L.C. (ATV Alliance, LLC) is over the shares held by ATV A 2003. Voting and d directors). ATV Alliance, LLC and Jean M. George extent of their pecuniary interest therein.

- (4) Includes 38,979 shares of common stock that can b
- Consists of (i) 2,146,720 shares of common stock h

 (ii) 129,759 shares of common stock held by AGTC
 general partner of AGTC Partners, L.P., which is th
 wholly-owned subsidiary of Flagship Ventures Mar
 Flagship Ventures Management, Inc. and may be de
 AGTC Fund. Mr. Kania, one of our directors, and I
 Fund except to the extent of their pecuniary interest
- Consists of (i) 509,989 shares of common stock and Investments II, LP (OPI II), (ii) 1,362,080 shares of OrbiMed Private Investments II (QP), LP (OPI QP) common stock held by OPI II, and (iv) 66,900 share OPI QP. OrbiMed Advisors LLC, or OrbiMed, a re is the managing member of OrbiMed Capital GP II Funds). Mr. Samuel D. Isaly is the managing member Mr. Isaly may be deemed to have voting and invest Mr. Isaly disclaim beneficial ownership with respect
- (7) Includes 581,094 shares of common stock that can
- (8)
 Consists of shares held by the Venrock Entities. By to share beneficial ownership in the shares held by referred to in footnote 2 above. Includes 1,666 shares the control of the cont
- (9)
 Consists of shares held by the ATV Entities. By vir to share beneficial ownership in the shares held by to in footnote 3 above. Includes 1,666 shares of cor
- (10)

 Consists of shares held by AGTC or AGTC Fund. I deemed to share beneficial ownership in the shares shares referred to in footnote 4 above. Includes 1,60 options.

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(11)	
(11)	Consists of shares held by Polaris Venture Partners Mr. McGuire may be deemed to share beneficial ov Mr. McGuire disclaims beneficial ownership of the
(10)	Includes 1,666 shares of common stock that can be
(12)	Includes 26,250 shares of common stock that can b
(13)	Includes 47,500 shares of common stock that can b
(14)	Includes 18,855 shares of common stock that can b
(15)	Includes 170,016 shares of common stock that can
(16)	Includes 145,562 shares of common stock that can
(17)	Includes 1,476,439 shares of common stock that ca

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DESCRI

General

The following description of our capital stock is intende certificate of incorporation and amended and restated by-laws a part, and to the applicable provisions of the Delaware Gene incorporation as our certificate of incorporation, and we refer

Our authorized capital stock consists of 175,000,000 shaperferred stock, par value \$0.001 per share, all of which prefer

As of January 1, 2014, we had issued and outstanding:

28,348,633 shares of our common stock;

options to purchase a total of 3,942,304 s share;

warrants to purchase a total of 979,699 share:

As of January 1, 2014, we had 174 stockholders of record

Common Stock

Dividend Rights. Subject to preferences that may appl of common stock will be entitled to receive dividends out of a from time to time determine.

Voting Rights. Each outstanding share of common sto Holders of shares of our common stock shall have no cumula

Preemptive Rights. Our common stock will not be ent securities.

Conversion or Redemption Rights. Our common stock

Liquidation Rights. Upon our liquidation, the holders available for distribution, after payment of all debts and other outstanding.

Listing. Our common stock is listed on the NASDAQ

Preferred Stock

Our board of directors may, without further action by ou series and may, at the time of issuance, determine the designarights as well as the qualifications, limitations or restrictions redemption and liquidation preferences, any or all of which n preferences of outstanding shares of preferred stock would re

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our common stock. Holders of shares of preferred stock may payment is made to the holders of shares of our common stock more difficult or tend to discourage a merger, tender offer or securities or the removal of incumbent management. Upon the board of directors, without stockholder approval, may issue staffect the holders of shares of our common stock and the mar and we have no present intention to issue any shares of prefer

Registration Rights

We are party to an amended and restated registration rig stock.

Under the amended and restated registration rights agree or request that their shares be included on a registration state of common stock. These registration rights are subject to con underwriters of an offering to limit the number of shares included in the requested S-1 or S-3 registration within 60 days before or six pertaining to an underwritten public offering of securities for

Demand Registration Rights

Following the expiration of any applicable lock up perio shares may require us to file a registration statement under th and we are required to use our best efforts to effect the registra-

Piggyback Registration Rights

If we propose to register any of our securities under the registrable shares are entitled to notice of such registration an statement, subject to the right of any underwriter to limit the other than underwriting discounts and commissions, related to rights agreement contains customary cross- indemnification printhe event of misstatements or omissions in the registration indemnify us for misstatements or omissions attributable to the sold or no longer qualify as registrable shares.

Anti-Takeover Effects of Our Certificate of Incorporation

Our certificate of incorporation and by-laws contain cert in the composition of the board of directors and which may h control of the company unless such takeover or change in cor

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These provisions include:

Classified Board. Our certificate of incorporation provelasses as nearly equal in number as possible. As a result, appellassification of directors has the effect of making it more different incorporation also provides that, subject to any rights of holden number of directors are fixed exclusively pursuant to a resolution.

Action by Written Consent; Special Meetings of Stockh taken only at an annual or special meeting of stockholders an incorporation and the by-laws also provide that, except as oth pursuant to a resolution adopted by a majority of the board of special meeting or to require the board of directors to call a sp

Removal of Directors. Our certificate of incorporation of at least 75% of the voting power of our outstanding shares supermajority vote to remove directors could enable a minori

Advance Notice Procedures. Our by-laws establish an meeting of our stockholders, including proposed nominations will only be able to consider proposals or nominations specifithe board of directors or by a stockholder who was a stockholmeeting and who has given our Secretary timely written notic meeting. Although the by-laws do not give the board of directors proposals regarding other business to be conducted at a specific certain business at a meeting if the proper procedures are not solicitation of proxies to elect its own slate of directors or other propers.

Super Majority Approval Requirements. The Delawar majority of the shares entitled to vote on any matter is require corporation's certificate of incorporation or by-laws requires affirmative vote of holders of at least 75% of the total votes e repeal specified provisions. This requirement of a supermajor could enable a minority of our stockholders to exercise veto provided the stockholders are requirements.

Authorized but Unissued Shares. Our authorized but issuance without stockholder approval. These additional share offerings to raise additional capital, corporate acquisitions an common stock and preferred stock could render more difficult

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attempt to obtain control of a majority of our common stock l

Exclusive Forum. Our certificate of incorporation pro State of Delaware is the sole and exclusive forum for (1) any claim of breach of a fiduciary duty owed by any of our direct claim against us arising pursuant to any provision of the Dela (4) any other action asserting a claim against us that is govern acquiring any interest in shares of our capital stock shall be d incorporation described above. Although we believe these pro Delaware law for the specified types of actions and proceeding and officers. The enforceability of similar choice of forum prolegal proceedings, and it is possible that, in connection with of forum provisions contained in our certificate of incorporation

Section 203 of the Delaware General Corporation

We are subject to the provisions of Section 203 of the D Delaware corporation from engaging in a "business combinat this stockholder becomes an interested stockholder, unless the combination" includes, among other things, a merger, asset o stockholder. An "interested stockholder" is a person who, tog determination of interested stockholder status, 15% or more of

Under Section 203, a business combination between a confollowing conditions: before the stockholder became interested which resulted in the stockholder becoming an interested stockholder becoming an interested stockholder, the interested stockholder the transaction commenced, excluding for purposes of determals officers, and employee stock plans, in some instances; or was approved by the board of directors of the corporation and vote of at least two-thirds of the outstanding voting stock which

A Delaware corporation may "opt out" of these provision provision in its certificate of incorporation or by-laws resulting outstanding voting shares. We have not opted out of these promay be discouraged or prevented.

Transfer Agent and Registrar

The transfer agent and registrar for our common stock is 250 Royall Street Canton, Massachusetts 02021.

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SHARES I

Future sales of our common stock, including shares issue this offering, or the perception that those sales may occur, coability to raise equity capital in the future.

As of January 1, 2014, based on the number of shares of (2) no exercise of the underwriters' option to purchase addition we would have had outstanding an aggregate of 30,383,633 so including the 6,417,000 shares sold in our initial public offering sold upon exercise of the underwriters' option to purchase additurther registration under the Securities Act of 1933, as amen such term is defined in Rule 144 of the Securities Act. The reging in Rule 144 or subject to lock up agreements in effect in confict (as described below) and will be available for sale in the public

Approximate Number of Shares 5,896,337 shares, or 21%

14,969,573 shares, or 53%

Lock-up Agreements

In connection with this offering, we, our officers and dir common stock outstanding as of January 1, 2014 have agreed shares of our common stock or securities convertible into or clock-up agreement continuing through the date 90 days after Markets Inc. and Leerink Partners LLC, the representatives of have no current intent or arrangement to release any of the sh

Following the lock-up periods set forth in the agreement release any parties from these agreements, all of the shares of date of this prospectus will be eligible for sale in the public m

In addition, pursuant to each of our amended and restate co-sale agreement, the parties thereto have agreed that,

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if requested in writing by the representatives of the underwrit sale of, grant any option for the purchase of, or otherwise dispabove. The representatives of the underwriters have invoked subject to the related transaction restrictions. Holders of approf common stock outstanding as of January 1, 2014, are colleagreements with the underwriters in our initial public offering

Rule 144

In general, under Rule 144, as currently in effect, once v Exchange Act of 1934, as amended, or the Exchange Act, for who is not deemed to have been one of our "affiliates" for put has beneficially owned restricted securities within the meanir owner other than one of our "affiliates," is entitled to sell those applicable) without complying with the manner of sale, volur public information requirements of Rule 144. If such a person the holding period of any prior owner other than "affiliates", complying with any of the requirements of Rule 144 (subject Rule 144, as currently in effect, once we have been subject to 90 days, our "affiliates", as defined in Rule 144, who have be sell in the public market, upon expiration of any applicable lo our common stock that does not exceed the greater of: 1% of 303,836 shares of common stock immediately after this offer outstanding as of January 1, 2014 and the assumptions descri NASDAQ Global Market during the four calendar weeks pre

Such sales under Rule 144 by our "affiliates" or persons provisions, notice requirements and to the availability of curr holders of substantially all of our restricted securities have en become eligible for sale (subject to the above limitations under the subject to t

Rule 701

In general, under Rule 701 as currently in effect, any of stock from us in connection with a written compensatory stoc Securities Act before the effective date of the registration stat subject to a lock-up agreement) is entitled to rely on Rule 701 company reporting requirements of the Exchange Act in relia

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contained in Rule 144. Accordingly, subject to any applicable company reporting requirements of the Exchange Act, under those shares without complying with the minimum holding puraffiliates" may resell those shares without compliance with I agreement referred to below, if applicable).

Equity Incentive Plans

We have filed with the SEC a registration statement und exercise of outstanding options reserved for issuance under o Accordingly, shares registered under such registration statem Rule 144 volume limitations and the lock-up agreements described to the statement of the statement

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MATERIAL UNIT

The following is a summary of the material U.S. federal disposition of our common stock by Non-U.S. Holders (defin potential tax considerations relevant to Non-U.S. Holders of Treasury regulations promulgated or proposed thereunder and of which are subject to change at any time, possibly on a retro

This summary assumes that shares of our common stock Revenue Code (generally, property held for investment). This taxation that might be relevant to particular Non-U.S. Holder specific tax considerations that may be relevant to particular companies, partnerships or other pass-through entities, certain corporations", "passive foreign investment companies", corporations such as those who have elected to mark seconversion transaction, synthetic security or other integrated 3.8% Medicare tax on net investment income). In addition, exaddress estate and gift tax considerations or considerations un

For purposes of this summary, a "Non-U.S. Holder" meanot classified as a partnership and is not:

an individual who is a citizen or resident

a corporation or any other organization ta or under the laws of the United States, an

an estate, the income of which is included

a trust if (1) a U.S. court is able to exercise have the authority to control all of the true applicable U.S. Treasury regulations to be

If an entity that is classified as a partnership for U.S. fed treated as its partners for U.S. federal income tax purposes we partnership. Partnerships and other entities that are classified common stock through a partnership or other entity classified tax advisors.

There can be no assurance that the Internal Revenue Ser and we have not obtained, nor do we intend to obtain a ruling a Non-U.S. Holder of the purchase, ownership or disposition

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THIS SUMMARY IS FOR GENERAL INFORMAT HOLDERS ARE URGED TO CONSULT THEIR TAX A TAXATION, STATE, LOCAL AND NON-U.S. TAXATIO OWNERSHIP AND DISPOSITION OF OUR COMMON

Distributions on Our Common Stock

As discussed under "Dividend Policy" above, we do not cash or property with respect to our common stock, any such purposes to the extent of our current and accumulated earning distribution exceeds our current and accumulated earnings an holder's adjusted tax basis in our common stock, but not belo treatment described below in "Gain on Sale, Exchange or O be subject to the discussion below under the section titled"

Dividends paid to a Non-U.S. Holder generally will be s us or our agent, as the case may be, with the appropriate IRS

IRS Form W-8BEN (or successor form) of income tax treaty, or

IRS Form W-8ECI (or successor form) consecuted with a dividend generally will be subject to regular.

The certification requirement described above must be p periodically. The certification also may require a Non-U.S. H taxpayer identification number. Special certification and othe common stock through intermediaries or are pass-through ent

Each Non-U.S. Holder is urged to consult its own tax ad exemption will not be valid if the person receiving the applicate are false.

If dividends are effectively connected with a trade or buincome tax treaty, attributable to a U.S. permanent establishm above (provided that the certifications described above are sanet income basis in the same manner as if it were a resident o U.S. federal income tax purposes, the Non-U.S. Holder may be applicable income treaty) of its earnings and profits in respec-

Non-U.S. Holders that do not timely provide us or our a federal withholding tax pursuant to an income tax treaty, may appropriate claim for refund with the IRS.

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Gain on Sale, Exchange or Other Taxable Disposition of O

Subject to the discussion below under the section titled 'Holder will not be subject to U.S. federal income tax or with disposition of shares of our common stock unless (1) such Nomore in the taxable year of disposition, and certain other concorporation", as defined in the Internal Revenue Code (a USF disposition and the Non-U.S. Holder's holding period in the sis effectively connected with the conduct by such Non-U.S. Fincome tax treaty, is attributable to a permanent establishmen

If the first exception applies, the Non-U.S. Holder gener under an applicable income tax treaty) on the amount by which losses allocable to U.S. sources during the taxable year of the subject to U.S. federal income tax with respect to such gain of and a Non-U.S. Holder that is a corporation for U.S. federal if earnings and profits attributable to such gain at a rate of 30%

Generally, a corporation is a USRPHC only if the fair m Code) equals or exceeds 50% of the sum of the fair market vain a trade or business. Although there can be no assurance in However, because the determination of whether we are a USI the fair market value of other business assets, there can be no USRPHC, a Non-U.S. Holder would not be subject to U.S. fe stock by reason of our status as USRPHC so long as our com the calendar year in which the disposition occurs and such No constructively) more than 5% of our common stock at any tin holder's holding period. However, no assurance can be provided market for purposes of the rules described above. Prospective consequences to them if we are, or were to become, a USRPH

Additional Withholding and Reporting Requirements

Legislation enacted in March 2010 and related Treasury U.S. federal withholding at a rate of 30% on payments of (1) from the sale or other disposition of our common stock on or institution" as defined under FATCA (including, among other generally will be imposed, subject to certain exceptions, unle agreement with the U.S. government (a "FATCA Agreement intergovernmental agreement between the United States and

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a foreign jurisdiction (an "IGA"), in either case to, among oth information regarding U.S. account holders of such institution institution (as a beneficial owner), the tax generally will be in withholding agent with a certification that it does not have an indirectly owns more than a specified percentage of such ential a foreign financial institution that enters into (or is otherwise cases, a person paying amounts to such foreign financial institution payments of dividends and proceeds described above madinformation requests or (2) a foreign financial institution that not required to comply with FATCA pursuant to applicable for

Prospective investors should consult their own tax advis stock, and the entities through which they hold our common applicable requirements to prevent the imposition of this 30%

Backup Withholding and Information Reporting

We must report annually to the IRS and to each Non-U.3 holder and the tax withheld, if any, with respect to the distrib to establish that the holder is not a United States person (as deapplicable rate, currently 28%, with respect to dividends on o withholding tax, as described above under the section titled "withholding.

Information reporting and backup withholding will gene Holder effected by or through the U.S. office of any broker, I satisfies certain other requirements, or otherwise establishes a apply to a payment of disposition proceeds to a Non-U.S. Ho office of a broker. However, for information reporting purpos ownership or operations generally will be treated in a manner investors should consult their own tax advisors regarding the

Copies of information returns may be made available to the Non-U.S. Holder is incorporated, under the provisions of

Backup withholding is not an additional tax. Any amour Holder can be refunded or credited against the Non-U.S. Hold timely filed with the IRS.

Federal Estate Tax

Common stock owned (or treated as owned) by an indiv federal estate tax purposes) at the time of death will be include applicable estate or other tax treaty provides otherwise, and the

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Citigroup Global Markets Inc. and Leerink Partners LLC the underwriters named below. Subject to the terms and cond underwriter named below has severally agreed to purchase, a the underwriter's name.

Underwriter
Citigroup Global Markets Inc.
Leerink Partners LLC
Piper Jaffray & Co.
JMP Securities LLC

Total 2.03

Num

of Sh

The underwriting agreement provides that the obligation approval of legal matters by counsel and to other conditions. by the option to purchase additional shares described below)

Shares sold by the underwriters to the public will initiall Any shares sold by the underwriters to securities dealers may all the shares are not sold at the initial offering price, the under representatives have advised us that the underwriters do not in

We have granted to the underwriters an option, exercisal shares at the public offering price less the underwriting disco of additional shares approximately proportionate to that unde will be issued and sold on the same terms and conditions as the

We, and our officers and directors have agreed that, for the prior written consent of Citigroup and Leerink, dispose of common stock. Citigroup and Leerink in their sole discretion which, in the case of officers and directors, shall be with notion

Our common stock is listed on the NASDAQ Global Ma

The following table shows the underwriting discounts ar offering. These amounts are shown assuming both no exercis common stock.

	Paid by Acceleron	
	No Exercise	Full Exercise
Per share	\$	\$
Total	\$	\$

We estimate that our portion of the total expenses of this

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We have also agreed to reimburse the underwriters for c agreement.

In connection with the offering, the underwriters may pure may include short sales, purchases to cover short positions, wadditional shares, and stabilizing purchases.

Short sales involve secondary market sale purchase in the offering.

"Covered" short sales are sales option to purchase additional sl

"Naked" short sales are sales of underwriters' option to purchase

Covering transactions involve purchases in the open market in order to cover short

To close a naked short position is more likely to be created if the the shares in the open market at

To close a covered short position option to purchase additional shunderwriters will consider, among compared to the price at which

Stabilizing transactions involve bids to pu

Purchases to cover short positions and stabilizing purchase the effect of preventing or retarding a decline in the market price that would otherwise exist in the open market in the abs NASDAQ Global Market, in the over-the-counter market or discontinue them at any time.

Other Relationships

Some of the underwriters and their affiliates have engag dealings in the ordinary course of business with us or our affi 2013, for which they received, or may in the future receive, c

Conflicts of Interest

The underwriters are full service financial institutions er investment banking, financial advisory, investment managem underwriters and their respective affiliates may, from time to of their business for which they may receive customary

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fees and reimbursement of expenses. In the ordinary course of may make or hold a broad array of investments and actively transfer instruments (which may include bank loans and/or credit defar any time hold long and short positions in such securities and instruments of ours or our affiliates. The underwriters and the independent research views in respect of such securities or fin and/or short positions in such securities and instruments.

We have agreed to indemnify the underwriters against copayments the underwriters may be required to make because

Notice to Prospective Investors in the European Economic

In relation to each member state of the European Econor state), with effect from and including the date on which the P implementation date), an offer of shares described in this pro-

to any legal entity which is a qualified in

to fewer than 100 or, if the relevant mem Directive, 150 natural or legal persons (or under the Prospectus Directive, subject to any such offer; or

in any other circumstances falling within

provided that no such offer of shares shall require us or any u

For purposes of this provision, the expression an "offer of any form and by any means of sufficient information on the topurchase or subscribe for the shares, as the expression may be in that member state, and the expression "Prospectus Directive Amending Directive, to the extent implemented in the relevant member state. The expression 2010 PD Amending Directive

The sellers of the shares have not authorized and do not their behalf, other than offers made by the underwriters with Accordingly, no purchaser of the shares, other than the under or the underwriters.

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Notice to Prospective Investors in the United Kingdom

This prospectus is only being distributed to, and is only meaning of Article 2(1)(e) of the Prospectus Directive that ar Services and Markets Act 2000 (Financial Promotion) Order lawfully be communicated, falling within Article 49(2)(a) to prospectus and its contents are confidential and should not be to any other persons in the United Kingdom. Any person in the document or any of its contents.

Notice to Prospective Investors in France

Neither this prospectus nor any other offering material reprocedures of the *Autorité des Marchés Financiers* or of the anotified to the *Autorité des Marchés Financiers*. The shares have the public in France. Neither this prospectus nor any other offering material reproduction of the control of the contr

released, issued, distributed or caused to

used in connection with any offer for sub

Such offers, sales and distributions will be made in Fran

to qualified investors (*investisseurs quali*, each case investing for their own account D.734-1, D.744-1, D.754-1 and D.764-1

to investment services providers authoriz

in a transaction that, in accordance with a article 211-2 of the General Regulations (public offer (appel public à l'épargne).

The shares may be resold directly or indirectly, only in cof the French *Code monétaire et financier*.

Notice to Prospective Investors in Australia

(ii)

No prospectus or other disclosure document (as defined the common stock has been or will be lodged with the Austra lodged with ASIC and is only directed to certain categories o

(a) you confirm and warrant that you are eith

(i) a "sophisticated investor" under

a "sophisticated investor" under accountant's certificate to us wh

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(b)

of section 708(8)(c)(i) or (ii) of

(iii) a person associated with the co

(iv)

a "professional investor" within
that you are unable to confirm o
professional investor under the
of acceptance; and

you warrant and agree that you will not o common stock being issued unless any su section 708 of the Corporations Act.

Notice to Prospective Investors in Hong Kong

The shares may not be offered or sold in Hong Kong by offer to the public within the meaning of the Companies Ordi meaning of the Securities and Futures Ordinance (Cap. 571, I which do not result in the document being a "prospectus" wit advertisement, invitation or document relating to the shares n each case whether in Hong Kong or elsewhere), which is dire Hong Kong (except if permitted to do so under the laws of Hof only to persons outside Hong Kong or only to "professional Laws of Hong Kong) and any rules made thereunder.

Notice to Prospective Investors in Japan

The shares offered in this prospectus have not been and The shares have not been offered or sold and will not be offer Japan (including any corporation or other entity organized un requirements of the Financial Instruments and Exchange Law

Notice to Prospective Investors in Singapore

This prospectus has not been registered as a prospectus of other document or material in connection with the offer or said distributed, nor may the shares be offered or sold, or be made indirectly, to persons in Singapore other than (i) to an institut Singapore (the SFA), (ii) to a relevant person pursuant to Seconditions specified in Section 275 of the SFA or (iii) otherw provision of the SFA, in each case subject to compliance with

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Where the shares are subscribed or purchased under Sec

a corporation (which is not an accredited investments and the entire share capital o investor; or

a trust (where the trustee is not an accredit trust is an individual who is an accredited

shares, debentures and units of shares and debentures of that trust shall not be transferred within six months after that corp Section 275 of the SFA except:

to an institutional investor (for corporation of the SFA, or to any person pursuant to a debentures of that corporation or such rig \$0.2 million (or its equivalent in a foreign exchange of securities or other assets, and of the SFA;

where no consideration is or will be given

where the transfer is by operation of law.

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The validity of the issuance of our common stock offere Massachusetts. Certain legal matters in connection with this of Glovsky and Popeo, P.C., Boston, Massachusetts.

The financial statements of Acceleron Pharma Inc. at De Prospectus and Registration Statement have been audited by their report thereon appearing elsewhere herein, and are inclusive accounting and auditing.

WHERE YOU

We have filed with the SEC a registration statement on I offered hereby. This prospectus, which constitutes a part of the registration statement or the exhibits and schedules filed there hereby, reference is made to the registration statement and the regarding the contents of any contract or any other document and each such statement is qualified in all respects by referent registration statement. A copy of the registration statement are public reference room maintained by the SEC, located at 100 registration statement may be obtained from such offices upon 1-800-SEC-0330 for further information about the public reference information statements and other information regarding regis

We are subject to the information and periodic reporting reports, proxy statements and other information with the SEC inspection and copying at the public reference room and web

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Inde

Report of Independent Registered Public Accounting Firm Balance Sheets as of December 31, 2011 and 2012

Statements of Operations and Comprehensive Income (Loss)

Statements of Redeemable Convertible Preferred Stock and S

Statements of Cash Flows for the Years Ended December 31,

Notes to Financial Statements

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Report of Indepen

The Board of Directors and Stockholders of Acceleron Pharma Inc.

We have audited the accompanying balance sheets of Adrelated statements of operations and comprehensive income (flows for the years then ended. These financial statements are an opinion on these financial statements based on our audits.

We conducted our audits in accordance with the standard standards require that we plan and perform the audit to obtain misstatement. We were not engaged to perform an audit of the consideration of internal control over financial reporting as a not for the purpose of expressing an opinion on the effectiver express no such opinion. An audit also includes examining, of statements, assessing the accounting principles used and sign statement presentation. We believe that our audits provide a result of the standard statement presentation.

In our opinion, the financial statements referred to above Pharma Inc. at December 31, 2011 and 2012, and the results of generally accepted accounting principles.

Boston, Massachusetts July 3, 2013, except for Note 16, as to which the date is September 5, 2013

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(amounts in thou

Assets

Current assets:

Cash and cash equivalents

Collaboration receivables (includes related party amounts of 2012, respectively)

Related party receivable

Prepaid expenses and other current assets

Total current assets

Property and equipment, net

Restricted cash

Related party receivables

Other assets

Total assets

Liabilities, redeemable convertible preferred stock and st

Current liabilities:

Accounts payable

Accrued expenses (includes related party amounts of \$833 an respectively)

Deferred revenue

Deferred rent

Notes payable, net of discount

Total current liabilities

Deferred revenue, net of current portion

Deferred rent, net of current portion

Notes payable, net of current portion and discount

Warrants to purchase redeemable convertible preferred stock

Warrants to purchase common stock

Total liabilities

Commitments and contingencies (Note 7)

Redeemable convertible preferred stock (Note 8)

Stockholders' deficit:

Common stock, \$0.001 par value: 104,013,161 shares author outstanding at December 31, 2011 and 2012, respectively

Additional paid-in capital

Accumulated deficit

Total stockholders' deficit

Total liabilities, redeemable convertible preferred stock and s

See accompa

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Statements of Oper

(amounts in

Revenue:

Collaboration revenue:

License and milestone

Cost-sharing, net

Contract manufacturing

Total revenue(1)

Costs and expenses:

Research and development

General and administrative

Cost of contract manufacturing revenue

Total costs and expenses

Income (loss) from operations

Other (expense) income:

Other expense, net

Interest income

Interest expense

Total other expense, net

Net income (loss)

Comprehensive income (loss)

Reconciliation of net income (loss) to net income (loss) appli Net income (loss)

Accretion of dividends, interest, redemption value and issuan Net income (loss) applicable to participating securities

Net income (loss) applicable to common stockholders basic

Net income (loss)

Accretion of dividends, interest, redemption value and issuan Net income (loss) applicable to participating securities

Net income (loss) applicable to common stockholders dilute

Net income (loss) per share applicable to common stockholde Basic

Diluted

Weighted-average number of common shares stockholders:	used in compu
Basic	
Diluted	
(1) Includes related party revenue (Note 15)	\$ 64.
	See accomp

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convertible preferred stock

Balance at December 31, 2012

Compensation expense associated with stock options Exercise of stock options

Net loss

-			(amounts
	Series Redeen Conver Preferred Number of Shares	nable tible	Serie Redeer Conver Preferred Number of Shares
Balance at December 31, 2010	6,410,976	\$ 57,433	4,204,185
Sale of Series F redeemable convertible preferred stock net of issuance costs of \$92		·	
Accretion of dividends, interest, redemption value and issuance			
costs related to redeemable			
convertible preferred stock		4,616	
Compensation expense associated with stock options			
Grant of stock options to			
nonemployees			
Exercise of stock options			
Ecercise of common warrants			
Net loss			
Balance at December 31, 2011	6,410,976	62,049	4,204,185
Accretion of dividends, interest, redemption value and issuance costs related to redeemable			

Statements of Redeemable Co

See accompa

4,616

6,410,976 \$66,665 4,204,185

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Statements of Redeemable Converting (amounts)

	Serie Redeer Conver Preferre Number of	nable rtible
	Shares	Value
Balance at December 31, 2010	816,060	\$ 8,423
Sale of Series F redeemable convertible		
preferred stock net of issuance costs of \$92		
Accretion of dividends, interest, redemption		
value and issuance costs related to redeemable		
convertible preferred stock		2,511
Compensation expense associated with stock		
options		
Grant of stock options to nonemployees		
Exercise of stock options		
Ecercise of common warrants		
Net loss		
Balance at December 31, 2011	816,060	10,934
Accretion of dividends, interest, redemption	· ·	•
value and issuance costs related to redeemable		
convertible preferred stock		2,459
Compensation expense associated with stock		
options		
Exercise of stock options		
Net loss		
Balance at December 31, 2012	816,060	\$ 13,393

See accompa

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Operating Activities

Net income (loss)

Adjustments to reconcile net income (loss) to net cash provid

Depreciation and amortization

Stock-based compensation

Amortization of debt discount

Accretion of deferred interest

Amortization of deferred debt issuance costs

Change in fair value of warrants

Changes in assets and liabilities:

Prepaid expenses and other current assets

Collaboration receivables

Related party receivable

Accounts payable

Accrued expenses

Deferred revenue

Deferred rent

Restricted cash

Net cash provided by (used in) operating activities

Investing Activities

Purchases of property and equipment

Net cash used in investing activities

Financing Activities

Proceeds from issuance of redeemable convertible preferred s

Proceeds from long-term debt, net of issuance costs

Payments of long-term debt

Proceeds from exercise of stock options and warrants to purc

Net cash provided by financing activities

Net increase (decrease) in cash and cash equivalents

Cash and cash equivalents at beginning of year

Cash and cash equivalents at end of year

Supplemental Disclosure of Cash Flow Information:

Cash paid for interest

Supplemental Disclosure of Non-Cash Investing and Fina

Accretion of dividends, interest, redemption value, and issuar

See accompa

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Not

Years End

1. Nature of Business

Acceleron Pharma Inc. (Acceleron or the Company) was The Company subsequently changed its name to Acceleron P Cambridge, Massachusetts-based biopharmaceutical company therapeutics for cancer and rare diseases. The Company's reseprotein superfamily, a large and diverse group of molecules the coupling its discovery and development expertise, including a engineering and manufacturing capabilities, the Company has numerous innovative protein therapeutics with novel mechant that are currently being studied in 12 ongoing Phase 2 clinical

The Company is subject to risks common to companies never achieves profitability, the need for substantial additional dependence on key personnel, protection of proprietary technical

Liquidity

As of December 31, 2012, the Company had an accumulits research and development. The Company believes that its Company to fund its current operating plan through January 1 operations beyond this time. As the Company continues to in approval and commercialization of its product candidates and structure. The Company may never achieve profitability, and capital. Management intends to fund future operations throug collaborations. There can be no assurances, however, that add

2. Summary of Significant Accounting Policies

The accompanying financial statements reflect the application these notes to the financial statements. The Company believe the Company's financial condition and results, and requires must be need to make estimates about the effect of matters that are

Basis of Presentation

The accompanying financial statements have been prepared of America (GAAP). Any reference in these notes to applicable accounting

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Notes to F

2. Summary of Significant Accounting Policies (continued

principles as found in the Accounting Standards Codification Standards Board (FASB).

Use of Estimates

The preparation of financial statements in conformity we reported amounts of assets and liabilities, the disclosure of commounts expensed during the reporting period. Actual results

Management considers many factors in selecting appropassumptions that are used in the preparation of these financial addition, other factors may affect estimates, including: expect assumptions used in developing estimates, and whether histor often may yield a range of potentially reasonable estimates of within that range of reasonable estimates. This process may repreparation of the financial statements if these results differ fracturate, even if such assumptions are reasonable when made the following areas, among others: revenue recognition, stock awards, the fair value of liability-classified warrants, accrued related valuation allowance.

The Company utilizes significant estimates and assumpt directors (the Board) determined the estimated fair value of the including external market conditions affecting the biotechnol convertible preferred stock, the superior rights and preference of achieving a liquidity event, such as an initial public offering

The Company utilized various valuation methodologies Accountants' Technical Practice Aid, *Valuation of Privately-* of its common stock. Each valuation methodology includes easumptions include a number of objective and subjective fac sector, the prices at which the Company sold shares of prefer Stock at the time and the likelihood of achieving a liquidity evaluations could result in different fair values of common sto

Reclassifications

The Company has reclassified certain prior period amou deferred rent from long-term to short-term to

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Notes to F

2. Summary of Significant Accounting Policies (continued

conform to the current period presentation. This reclassificati the year ended December 31, 2011.

Collaboration Receivable

Credit is extended to customers based upon an evaluation realizable value. The Company does not charge interest on parpayment due date is exceeded. The Company utilizes a specific outstanding balances and previous activities to determine the receivables at the time the Company determines the receivable accounts at December 31, 2011 or 2012.

Segment Information

Operating segments are identified as components of an evaluation by the chief operating decision maker, or decision performance. The Company's chief operating decision maker Company's operations and manage its business as one operation States. The Company does use contract research organization expenses are subject to collaboration reimbursement which is comprehensive income (loss).

Cash and Cash Equivalents

The Company considers all highly liquid investments purequivalents. Cash and cash equivalents include cash held in bare carried at cost, which approximates their fair market value

Concentrations of Credit Risk and Off-Balance Sh

The Company has no off-balance sheet risk, such as fore Financial instruments that potentially subject the Company to and accounts receivable. The Company maintains its cash and institutions that management believes are creditworthy. The and financial instruments and defines allowable investments

The Company routinely assesses the creditworthiness of material losses related to receivables from individual custome require collateral. Due to these factors, no additional credit riprobable in the Company's accounts receivable.

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Notes to F

2. Summary of Significant Accounting Policies (continued

Deferred IPO Issuance Costs

Deferred issuance costs, which primarily consist of direct deferred issuance costs will be offset against IPO proceeds up delayed more than 90 days, deferred offering costs will be ex

Disclosure of Fair Value of Financial Instrument

The carrying amounts of the Company's financial instrumpayable, accrued expenses and notes payable, approximated these instruments, and for the notes payable, the interest rates discussion below on the determination of the fair value of the

The Company has evaluated the estimated fair value of the estimates. The use of different market assumptions and/or est amounts.

Fair Value Measurements

ASC Topic 820, Fair Value Measurement (ASC 820), e distinguishes between assumptions based on market data (observable inputs are inputs that market participants would us independent of the Company. Unobservable inputs are inputs would use in pricing the asset or liability, and are developed by

ASC 820 identifies fair value as the exchange price, or e transfer a liability in an orderly transaction between market p measurements, ASC Topic 820 establishes a three-tier fair va

Level 1 Quoted market prices in active r

Level 2 Inputs other than Level 1 inputs rates, and yield curves.

Level 3 Unobservable inputs developed market participant would use.

To the extent that the valuation is based on models or invalue requires more judgment. Accordingly, the degree of judinstruments categorized in Level 3. A financial instrument's lesignificant to the fair value measurement.

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Notes to F

2. Summary of Significant Accounting Policies (continued

Items measured at fair value on a recurring basis include purchase common stock (Note 6). During the periods present that are measured at fair value using Level 3 inputs.

The following tables set forth the Company's financial in financial instrument as of December 31, 2011 and 2012 (in the

Assets:

Money market funds

Restricted cash

Total assets

Liabilities:

Warrants to purchase redeemable convertible preferre stock

Warrants to purchase common stock

Total liabilities

Assets:

Money market funds Restricted cash

Total assets

Liabilities:

Warrants to purchase redeemable convertible preferre

Warrants to purchase common stock

Total liabilities

The following table sets forth a summary of changes in represents a recurring measurement that is classified within

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Notes to F

2. Summary of Significant Accounting Policies (continued

Level 3 of the fair value hierarchy, wherein fair value is estin

	Year Ended December		
	2	2011	201
Beginning balance	\$	3,912	\$
Change in fair value		481	
Exercises			
Repurchases			
Ending balance	\$	4,393	\$

The money market funds noted above are included in ca recognizes transfers between levels of the fair value hierarchy during the years ended December 31, 2011 or 2012.

The fair value of the warrants on the date of issuance and using the Black-Scholes option pricing model. This method of classes of preferred stock, stock price volatility, the contracture nature of these inputs, the valuation of the warrants is consider the warrants, as well as for a summary of the significant input.

The Company measures eligible assets and liabilities at elected either upon initial recognition of an eligible asset or li accounting. The Company did not elect to remeasure any of i any financial assets and liabilities transacted in the years ende

Property and Equipment

Property and equipment is stated at cost. Maintenance at expensed to operations as incurred. Upon disposal, retirement and any resulting gain or loss is included in the results of ope over the estimated useful lives of the assets, which are as follows:

Asset

Computer equipment and software Office and laboratory equipment Leasehold improvements

The Company reviews long-lived assets when events or recoverable. Recoverability is measured by comparison of the

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Notes to F

2. Summary of Significant Accounting Policies (continued

book values of the assets to future net undiscounted cash flow impaired, the impairment to be recognized is measured by the measured based on the projected discounted future net cash flow years ended December 31, 2011 or 2012.

Revenue Recognition

The company has primarily generated revenue through of development and commercialization of protein therapeutics.

The Company recognizes revenue in accordance with Fa each unit of accounting when all of the following criteria are services have been rendered; (3) the fee is fixed or determination

Amounts received prior to satisfying the revenue recogn Amounts expected to be recognized as revenue within the 12 portion. Amounts not expected to be recognized as revenue w revenue, net of current portion.

Multiple Element Revenue Arrangements

The Company enters into collaboration agreements from generally contain multiple elements or deliverables, which m (2) research and development activities performed for the col (4) manufacturing clinical or preclinical material. Payments p milestone payments upon achieving significant development on future product sales.

Effective January 1, 2011, the Company adopted ASU Namends Topic 605-25, *Revenue Recognition Multiple Eleme* arrangements as well as existing agreements that are significated the Company determines the estimated selling price for the reallocates arrangement consideration based upon the estimated

The application of the multiple element guidance require individual deliverables, and whether such deliverables are set considered separate units of accounting provided that: (1) the arrangement includes a general right of return relative to the

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Notes to F

2. Summary of Significant Accounting Policies (continued

delivery or performance of the undelivered item(s) is conside units of accounting, management evaluates certain criteria, in of the relevant facts and circumstances for each arrangement, collaboration partner and the availability of the associated expectation partner can use the other deliverable(s) for their of the deliverable is dependent on the undelivered item(s) and Arrangement consideration that is fixed or determinable is all method, and the applicable revenue recognition criteria, as dethe appropriate period or pattern of recognition.

The Company determines the estimated selling price for (VSOE) of selling price, if available, third-party evidence (TI selling price (BESP) if neither VSOE nor TPE is available. S estimate the selling price of the deliverables. Determining the BESP for a unit of accounting, the Company considers applic were contemplated in negotiating the agreement with the cust by evaluating whether changes in the key assumptions used to consideration between multiple units of accounting.

The Company typically receives up-front, non-refundable collaboration agreement. When management believes the lice deliverables to be provided in the arrangement, the Company the contractual or estimated performance period, which is typ obligations. The Company continually evaluates these period management believes the license to its intellectual property h license upon delivery.

Research and development funding is recognized as revolute principal under its collaboration agreements, it records particles cost-sharing revenue in the statements of operations and composition costs incurred, the Company records these controls are controlled to the company records these controls are controlled to the company records these controlled to the company records these controlled to the control

The Company's agreements may contain options which considered substantive if, at the inception of the arrangement exercise the option. Factors considered in evaluating whether

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Notes to F

2. Summary of Significant Accounting Policies (continued

arrangement, the benefit the collaborator might obtain from the likelihood that the option will be exercised. For arrangements the item underlying the option to be a deliverable at the inceparrangement consideration, assuming the option is not priced an option is not considered substantive or if an option is priced underlying the option to be a deliverable at the inception of the arrangement consideration.

Effective January 1, 2011, the Company adopted ASU Ninception of each arrangement that includes milestone payme substantive and at-risk. This evaluation includes an assessment performance to achieve the milestone, or (2) the enhancement least in part from the entity's performance to achieve the mile consideration is reasonable relative to all of the deliverables at the scientific, regulatory, commercial, and other risks that multinvestment required to achieve the respective milestone, and payment terms in the arrangement in making this assessment are met and the milestone is deemed substantive and at-risk, the milestones that are not deemed substantive and at-risk, where over the remaining service period.

Sales and commercial milestones and royalties will be re

Contract Manufacturing Revenue

Contract manufacturing revenue is recognized upon deli when transfer of title and risk of loss occurs.

Research and Development Expenses

Research and development costs are charged to expense and development costs include all direct costs, including sala outside consultants, costs of clinical trials, sponsored research to the development of drug candidates. The Company records made in advance of services performed or goods being delivered are delivered.

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Notes to F

2. Summary of Significant Accounting Policies (continued

Certain research and development projects are, or have be activities are included in research and development costs. The these agreements as revenue, as more fully described above a

Stock-Based Compensation

At December 31, 2012, the Company had one stock-base accounts for stock-based compensation in accordance with the which requires the recognition of expense related to the fair vecomprehensive income (loss).

For stock options issued to employees and members of t value of each option using the Black-Scholes option-pricing make assumptions with respect to the expected term of the option, risk-free interest rates and expected dividend you the Company recognizes stock-based compensation expense, straight-line basis over the requisite service period, which is a service-based vesting conditions, the Company recognizes stoprobable that the performance condition will be achieved. For subsequent periods if actual forfeitures differ from those esting

Share-based payments issued to non-employees are reco and are recognized as expense over the related service period stock-based awards granted to non-employees, the Company method.

See Note 11 for a discussion of the assumptions used by Black-Scholes option pricing model, as well as a summary of the year ended December 31, 2012.

Income Taxes

Income taxes are recorded in accordance with ASC Top, and liability approach. The Company recognizes deferred tax been included in the financial statements or tax returns. Defer financial statement and tax bases of assets and liabilities using reverse. Valuation allowances are provided, if based upon the deferred tax assets will not be realized.

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Notes to F

2. Summary of Significant Accounting Policies (continued

The Company accounts for uncertain tax positions in acc Company recognizes the tax benefit of tax positions to the ex whether the tax benefit will more likely than not be realized i available facts and circumstances. As of December 31, 2011

Net Income (Loss) Per Share

Net income (loss) per share information is determined us stock outstanding during the period and other securities that p convertible preferred stock are participating securities as defi

Under the two-class method, basic net income (loss) per (loss) applicable to common stockholders by the weighted-avincome (loss) per share is computed using the more dilutive onet income first to preferred stockholders based on dividend a common stockholders based on ownership interests. Net losse share in the Company's net losses.

Diluted net income (loss) per share gives effect to all po shares issuable upon the exercise of outstanding warrants and 2012, the Company has excluded the effects of all potentially redeemable convertible preferred stock, warrants for common of common shares outstanding as their inclusion in the compa

The following common stock equivalents were excluded because including them would have had an anti-dilutive effective of the control of the c

		Year Ended December 31,	
	2011	2012	
Outstanding stock options		3,73	
Common stock warrants	874	88	
Preferred stock		18,16	
Preferred stock warrants		24	
	874	23,02	

Comprehensive Income (Loss)

Comprehensive income (loss) is defined as the change in circumstances from non-owner sources. Comprehensive

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Notes to F

2. Summary of Significant Accounting Policies (continued

income (loss) consists of net income (loss) and other comprel from net income (loss). Comprehensive income (loss) has been income (loss) and equals the Company's net income (loss) for

Subsequent Events

The Company considers events or transactions that occu provide additional evidence relative to certain estimates or to

Application of New or Revised Accounting Standa

On April 5, 2012, the Jump-Start Our Business Startups among other things, reduce certain reporting requirements for has elected to not take advantage of the extended transition pstandards, and as a result, will comply with new or revised acrequired for non-emerging growth companies.

Recently Adopted Accounting Pronouncements

From time to time, new accounting pronouncements are as of the specified effective date. Unless otherwise discussed, effective will not have a material impact on its financial posit

3. Property and Equipment, Net

Property and equipment, net, consists of the following (i

Computer equipment and software	\$
Office equipment	
Laboratory equipment	
Leasehold improvements	
Construction in progress	
Total property and equipment	
Accumulated depreciation and amortization	
Property and equipment, net	\$

Depreciation and amortization expense was \$3.1 million

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Notes to F

4. Restricted Cash

As of December 31, 2011 and 2012, the Company maint account as collateral for the Company's facility lease obligation

5. Accrued Expenses

Accrued expenses consist of the following (in thousands

	Decemb	
	2011	
Collaboration expense	\$ 1,042	
Research and development related	570	
Employee compensation	1,963	
Professional services	368	
Other	570	

\$ 4,513

6. Warrants

Below is a summary of the number of shares issuable up outstanding warrants (in thousands, except per share data):

Warrants

	December 3 D ,6
Warrant to purchase Series A	
Preferred Stock	107
Warrants to purchase Series B	
Preferred Stock	32
Warrants to purchase Series C-1	
Preferred Stock	46
Warrants to purchase Series D-1	
Preferred Stock	64
Warrants to purchase common	
stock	872
Warrants to purchase common	
stock	13
All warrants	1,134
	,

⁽¹⁾ On February 6, 2013, the warrant holder exercised a warr of 47 shares of Series A Preferred Stock.

(2)

Warrants to purchase common stock were issued in connection December 31, 2011. See discussion below for further details

In connection with various financing transactions that w warrants for the purchase of up to 106,500 shares of the Com 31,891 shares of the Company's Series B redeemable convert Series C-1 redeemable convertible preferred stock (Series C-convertible preferred stock (Series D-1 Preferred Stock). Each Series B Preferred Stock expire seven years from the original Preferred Stock expire ten years from the original date of issue exercise price

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Notes to F

6. Warrants (continued)

equal to the original issuance price of the underlying instrume settlement basis and the redemption provisions are outside the and/or Series B Preferred Stock and/or Series C-1 Preferred Stock warrants to purchase shares of the Company's preferred stock

The Company follows the provisions of ASC Topic 480 *Shares that Are Redeemable*, which requires that warrants to value of the warrants is remeasured to the then-current fair value of the warrants is remeasured to the then-current fair value (expense), net. For the years ended December 31, 2011 and 2 purchase shares of the Company's preferred stock, using curre \$0.4 million, respectively, which was recorded in other exper (loss). The Company will continue to re-measure the fair value Preferred Stock, Series C-1 Preferred Stock, and Series D-1 Fexpiration of the applicable warrants or until such time that the

In December 2012, the Company modified the warrant t date from December 21, 2012 to February 28, 2013. On Febr in the issuance of 46,668 shares of Series A Preferred Stock. the resulting increase in fair value of \$0.1 million as other expenses.

In connection with the Series E redeemable convertible June 2010 and July 2010, the Company issued warrants to pu exercisable and expires ten years from the original date of iss exercise price equal to the estimated fair value of the underly exercisable on either a physical settlement or net share settler requiring an adjustment to the number of shares in the event to common stock, at a price per share lower than the warrant ext to be classified as liabilities under ASC Topic 815, *Derivativ* measured at fair value, with changes in fair value recognized comprehensive income (loss) for each reporting period therea preferred stock issued of \$3.0 million, and the preferred stock Company remeasured the fair value of the outstanding warrant and \$1.9 million, respectively, which was recorded in other et (loss) for the years ended December 31, 2011 and 2012. The

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Notes to F

6. Warrants (continued)

purchase common stock at the end of each reporting period u March 31, 2013, the Company retired 13,994 warrants to purchall remaining outstanding warrants were fully vested and exe

In connection with various financing transactions that w warrants to purchase up to 12,634 shares of common stock. T equity instruments. The warrants are exercisable at any time tusing the Black-Scholes option-pricing model, and was charge

The Company issued warrants to purchase up to 41,388 consulting services provided by a third party pursuant to standard warrants vested upon achievement of four milestones and we year ended December 31, 2011, the holder exercised 41,388 where of common stock. There were no exercises, cancellation

Fair Value

The fair value of the warrants to purchase preferred stock purchase preferred stock classified as liabilities, is estimated using inputs such as the fair value of the Company's various of the warrants, risk free interest rates, and dividend yields. To on each re-measurement date for those warrants to purchase a simulation framework, which incorporated three future finance to the nature of these inputs and the valuation techniques utility considered a Level 3 measurement (Note 2).

The fair value of each warrant to purchase shares of the pricing model with the following assumptions:

	Yea Dece	
	2	011
Fair value of underlying instrument	\$	6.76
Expected volatility		66.09
Expected term (in years)		1.16
Risk-free interest rate		0.129
Expected dividend yield		

(1)

During December 2012, the expiration date of the warrant 2013. The warrant to purchase Series A Preferred Stock w

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Notes to F

6. Warrants (continued)

The fair value of each warrant to purchase shares of the pricing model with the following assumptions:

	Year Decei	
	2	2011
Fair value of underlying instrument	\$	7.56
Expected volatility		66.09
Expected term (in years)		1.98
Risk-free interest rate		0.259
Expected dividend yield		

The fair value of each warrant to purchase shares of the option pricing model with the following assumptions:

	Year Decer	
	2	2011
Fair value of underlying instrument	\$	8.84
Expected volatility		66.09
Expected term (in years)		7.46
Risk-free interest rate		1.359
Expected dividend yield		

The fair value of each warrant to purchase shares of the option pricing model with the following assumptions:

	Year Decer	
	2	2011
Fair value of underlying instrument	\$	8.84
Expected volatility		66.0
Expected term (in years)		8.22
Risk-free interest rate		1.62
Expected dividend yield		

Fair Value of Underlying Instrument

The Company estimated the fair value of its shares of Se Series D-1 Preferred Stock as of December 31, 2011 and 201

Expected Volatility

The Company estimated the expected volatility based or publicly-traded equity securities. The Company calculated the period of the expected term of the associated award. The com the industry, and with historical share price information suffice volatility would decrease the fair value of the underlying inst

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Notes to F

6. Warrants (continued)

Expected Term

The Company based the expected term on the actual remwould decrease the fair value of the underlying instrument.

Risk-Free Interest Rate

The Company estimated the risk-free interest rate in refe with the expected term of the associated award. A decrease in instrument.

Expected Dividend Yield

The Company estimated the expected dividend yield bas expectations. The Company has not historically declared or p future, but instead expects to retain any earnings to invest in expected dividend yield of 0.0%.

7. Commitments and Contingencies

Operating Leases

The Company leases its facilities under non-cancelable of leases contain escalating rent clauses, which require higher recover the term of the lease, including any rent-free periods. In recorded these incentives as deferred rent, which is amortized approximately \$3.6 million and \$3.5 million were incurred due to the contained of the contained approximately \$3.6 million and \$3.5 million were incurred due to the contained approximately \$3.6 million and \$3.5 million were incurred due to the contained approximately \$3.6 million and \$3.5 million were incurred due to the contained approximately \$3.6 million and \$3.5 million were incurred due to the contained approximately \$3.6 million and \$3.5 million were incurred due to the contained approximately \$3.6 million and \$3.5 million were incurred due to the contained approximately \$3.6 million and \$3.5 million were incurred due to the contained approximately \$3.6 million and \$3.5 million were incurred approximately \$3.6 million approximat

Future annual minimum lease payments as of December

2013	\$ 4,522
2014	4,522
2015	4,106
2016	3,938
2017	3,938
2018	2,953
Total	\$ 23,979

In February 2011, the Company entered into a sublease clease from February 28, 2011 until May 30, 2015. The Comp

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Notes to F

7. Commitments and Contingencies (continued)

Future annual minimum sublease payments as of Decem

2013	\$ 583
2014 2015	583 241
Total	\$ 1,407

Legal Proceedings

On October 18, 2012, the Salk Institute for Biological St County, alleging that the Company breached one of the Comp provides the Company with a license with respect to certain of that, under the licensing agreement, the Company owed Salk agreement with Shire AG regarding ACE-031 and a share of received under its ongoing collaboration agreement with Celg interest in payment and a 15% share of future development of the Company contends that no additional amounts are due to applicable Salk license agreement.

The Company moved to dismiss the complaint on Decer March 14, 2013, Acceleron answered the complaint and asser removed the action on March 28, 2013 to the United States D agreement on a stipulation as to certain patent issues raised in scheduling conference on May 30, 2013, and the parties have The Company intends to defend its position vigorously.

The Company evaluated the suit under ASC Topic 450, shall be accrued if information available before the financial date of the financial statements, and the amount of loss can be unfavorable outcome is not probable, it has not established a

The Company's estimates can be affected by various fac possible. Although the Company believes it would successful discussions with Salk. Accordingly, the Company has estimated \$10.5 million plus interest.

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Notes to F

7. Commitments and Contingencies (continued)

Other

The Company is also party to various agreements, princi milestones not met at December 31, 2012, or royalties on futu agreements are expected to be payable in the immediate futur

The Company enters into standard indemnification agree indemnifies, holds harmless, and agrees to reimburse the inde Company's business partners or customers, in connection with by any third party with respect to the Company's products. The execution of the agreement. The maximum potential amount indemnification agreements is unlimited. The Company has reindemnification agreements.

8. Redeemable Convertible Preferred Stock

As of December 31, 2012 the authorized capital stock of share, of which: (1) 26,069,980 shares have been designated a Preferred Stock, (3) 11,923,077 shares have been designated have been designated as Series C-1 Preferred Stock, (5) 955,4 (Series D Preferred Stock), (6) 2,802,548 shares have been do as Series E Preferred Stock, and (8) 9,704,756 shares have be Stock, and all collectively the Preferred Stock).

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Notes to F

8. Redeemable Convertible Preferred Stock (continued)

The Company's Preferred Stock consisted of the followi

Series A Preferred Stock, \$0.001 par value: 26,069,980 share outstanding at December 31, 2011 and 2012 and 6,457,644 sł Series B Preferred Stock, \$0.001 par value: 16,944,378 share outstanding at December 31, 2011 and 2012, at redemption v Series C Preferred Stock, \$0.001 par value: 11,923,077 share outstanding at December 31, 2011 and 2012, at redemption v Series C-1 Preferred Stock, \$0.001 par value: 2,014,652 share December 31, 2011 and 2012, at redemption value Series D Preferred Stock, \$0.001 par value: 955,414 shares at December 31, 2011 and 2012, at redemption value(2) Series D-1 Preferred Stock, \$0.001 par value: 2,802,548 share December 31, 2011 and 2012, at redemption value Series E Preferred Stock, \$0.001 par value: 3,662,422 shares at December 31, 2011 and 2012, at redemption value(2) Series F Preferred Stock, \$0.001 par value: 9,704,756 shares December 31, 2011 and 2012, at redemption value(2)

Total redeemable convertible preferred stock

- (1) On February 6, 2013, the warrant holder exercised a warrant issuance of 46,668 shares of Series A Preferred Stock.
- On March 13, 2013, the Company retired 139,741 shares Series D Preferred Stock, 13,103 shares of Series E Prefer shares from an investor.

The holders of the Company's Preferred Stock have righ

Dividends

The holders of the Company's Preferred Stock are entitle at the rate of 8% per share per annum of the stated value there whether or not earned or declared, and whether or not in any in such fiscal year. No dividends or other distributions will be Preferred Stock have been paid. Additionally, if the Board de the same time, a dividend to the holders of the Preferred equa had been converted into shares of common stock. No dividence

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Notes to F

8. Redeemable Convertible Preferred Stock (continued)

Liquidation

In the event of any liquidation, dissolution, or winding u Preferred Stock are entitled to receive an amount equal to the accrued or declared but unpaid, or (b) an amount per share as immediately prior to the liquidation event. No payment shall Series D-1 and Series E Preferred Stock or common stock un

After payment has been made to the holders of Series F amount equal to the greater of (a) the Special Series E Liquid or (b) an amount per share as would have been payable had e event. No payment shall be made to the holders of Series A, S stock unless and until full payment has been made to the hold

The Special Series E Liquidation Payment is equal to a prinvestment amount of \$12.56 per share from the date of issua

After payment has been made to the holders of Series F are entitled to receive an amount equal to the greater of (a) \$1 declared but unpaid, or (b) an amount per share as would hav to the liquidation event. No payment shall be made to the holders of unless and until full payment has been made to the holders of

After payment has been made to the holders of Series F, Series C-1 Preferred Stock are entitled to receive an amount of Series C-1 Preferred Stock and \$10.40 per share, subject to applicate dut unpaid, or (b) an amount per share as would have to the liquidation event. No payment shall be made to the holp payment has been made to the holders of Series C and Series

After payment has been made to the holders of Series F, of Series B Preferred Stock are entitled to receive, an amount any dividends accrued or declared but unpaid, or (b) an amou stock immediately prior to the liquidation event. No payment and until full payment has been made to the holders of Series

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Notes to F

8. Redeemable Convertible Preferred Stock (continued)

After payment has been made to the holders of Series F, the holders of Series A Preferred Stock are entitled to receive (a) \$4.00 per share, subject to appropriate adjustment, plus ar have been payable had each share been converted to common holders of common stock unless and until full payment has be

The remaining assets of the Company available for distr Series C, Series C-1, Series B and Series A Preferred Stock s

Voting

The holders of the Preferred Stock are entitled to vote, to for a vote. The holders of the Preferred Stock are entitled to the share of the Preferred Stock is convertible at the time of such Preferred Stock are entitled to separate votes.

Conversion

Voluntary

Each share of Preferred Stock is convertible at the option dividing \$4.00 in the case of Series A Preferred Stock, \$7.40 in the case of Series C-1 Stock, \$12.56 in the case of Series E case of Series F Stock by the conversion prices in effect at the Preferred Stock is 1:1, but is subject to adjustment in the futu

Mandatory

Each share of Preferred Stock shall be automatically cor conversion, upon (1) the closing of an IPO of the Company's certain dilutive events, and which results in gross proceeds of

Each share of Preferred Stock shall be automatically corconversion, upon (1) the closing of an IPO of the Company's for certain dilutive events, and which results in gross proceed of the outstanding shares of the respective series of Series B l Preferred Stock, and Series F Preferred Stock, voting as a sin

Each share of Preferred Stock shall be automatically cor conversion, upon (1) the closing of an IPO of the Company's dilutive events, and

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Notes to F

8. Redeemable Convertible Preferred Stock (continued)

which results in gross proceeds of at least \$50.0 million, and Series B Preferred Stock, and (3) the election by the holders of Preferred Stock, Series D Preferred Stock, Series E Preferred

In the event of a closing of an IPO of the Company's cor of at least two thirds of the outstanding shares of the respectiv Stock, Series E Preferred Stock, and Series F Preferred Stock converted into shares of common stock at the conversion price

In the event of an automatic conversion of the Preferred adjusted for certain dilutive events, each share of Series E Preshares which would be received under the conversion price in or (2) a ratio determined by dividing the Special Series E Liq price per share of the Company's common stock in an IPO.

Special Mandatory

In the event that any holder of shares of Preferred Stock aggregate, in such Qualified Financing and within the time pershares of preferred stock will automatically convert into com-

The Company evaluated each series of its Preferred Stoc 815. In making this determination, the Company's analysis for the entire preferred stock instrument which includes that feath characteristics and risks of each series of Preferred Stock. Most terms and features, including: (1) whether the Preferred Stock exercised, (3) whether the holders of Preferred Stock were en and nature of any conversion rights. As a result of the Compa feature of all series of Preferred Stock is considered to be clearly conversion feature of all series of Preferred

The Company accounts for potential beneficial conversi *Options*. At the time of each of the issuances of Preferred Sto Stock is convertible had an estimated fair value less than the value on the respective commitment dates.

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Notes to F

8. Redeemable Convertible Preferred Stock (continued)

As noted above, in certain events, the Series E Preferred formula driven by the date on which the Company completes the provisions of ASC 470, that as the changes to the convers control, this represents a contingent conversion option, and, to Company evaluated whether a beneficial conversion feature is triggering event occurs, measured based on the number of shamultiplied by the commitment date fair value of the common assessment, the Company determined that no beneficial conversions.

Redemption

The Company shall be required to redeem all, but not let three equal installments at the written election of holders of 8 date that is 90 days before the fifth anniversary of the origina 2016. The redemption price per share of Series F Preferred St Redemption Price) adjusted for certain dilutive events, plus a redemption date, plus (2) an additional amount computed sim simple interest of 10% per annum from the date of issuance of

After full redemption of the Series F Preferred Stock, the shares of the Series E Preferred Stock, in three equal installm Preferred Stock at any time on or after the date that is 90 days Preferred Stock. The redemption price per share of Series E F Series E Base Redemption Price) adjusted for certain dilutive applicable redemption date, plus (2) an additional amount conequal to simple interest of 10% per annum from the date of is

After full redemption of the Series F and Series E Prefer outstanding shares of the Series D and Series D-1 Preferred S 85% of the outstanding shares of Series D and Series D-1 Pre anniversary of the original issue date of the Company's Series be equal to (1) \$12.56 for the Series D and D-1 Preferred Stodividends accrued or declared but unpaid on such share on the interest payable on the Series D Base

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Notes to F

8. Redeemable Convertible Preferred Stock (continued)

Redemption Price at the rate equal to simple interest of 10%

After full redemption of the Series F, Series E, Series D, not less than all, of the outstanding shares of the Series C Pre holders of two-thirds of the outstanding shares of Series C an the fifth anniversary of the original issue date of the Company (1) \$10.40 in the case of Series C Preferred Stock and \$10.92 adjusted for certain dilutive events, plus all dividends accrued additional amount computed similar to interest payable on the annum from the date of issuance of such shares.

After full redemption of the Series F, Series E, Series D, required to redeem all, but not less than all, of the outstanding the written election of holders of two-thirds of the outstanding before the fifth anniversary of the original issue date of the C (1) \$7.40 for the Series B Preferred Stock (the Series B Base declared but unpaid on such share on the applicable redempti Series B Base Redemption Price at the rate equal to simple in

After full redemption of the Series F, Series E, Series D, be required to redeem all, but not less than all, of the outstand at the written election of holders of two-thirds of the outstand before the fifth anniversary of the original issue date of the C (1) \$4.00 for the Series A Preferred Stock (the Series A Base or declared but unpaid on such share on the applicable redem Series A Base Redemption Price at the rate equal to simple in

As the Preferred Stock may become redeemable upon ar classified outside of permanent equity.

9. Common Stock

As of December 31, 2012, the authorized capital stock of share.

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Notes to F

9. Common Stock (continued)

General

The voting, dividend and liquidation rights of the holder preferences of the holders of the Preferred Stock. The commo

Voting

The holders of shares of common stock are entitled to or written actions in lieu of meetings.

Dividends

The holders of shares of common stock are entitled to re declared or paid to holders of shares of common stock until p terms. No dividends have been declared or paid by the Comp

Liquidation

After payment to the holders of shares of Preferred Stocto share ratably in the Company's remaining assets available liquidation, dissolution or winding up of the Company or upon the Company of the Company or upon the Company of the Company or upon the Company of the Com

Reserved for Future Issuance

There were 2,393,458 and 2,432,155 common shares iss has reserved for future issuance the following number of shar

Conversion of Series A Preferred Stock
Conversion of Series B Preferred Stock
Conversion of Series C Preferred Stock
Conversion of Series C-1 Preferred Stock
Conversion of Series D Preferred Stock
Conversion of Series D-1 Preferred Stock
Conversion of Series E Preferred Stock

Conversion of Series F Preferred Stock Warrants to purchase Preferred Stock

Outstanding stock options to purchase common stock

Shares available for future issuance under stock option plan

Warrants to purchase common stock

Additional shares reserved for unissued, but designated, Prefe

Total shares of authorized common stock reserved for future

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Notes to F

10. Significant Agreements

Celgene

Overview

On February 20, 2008 the Company entered into a collal Corporation (Celgene) relating to sotatercept. On August 2, 2 with Celgene for ACE-536 (the ACE-536 Agreement), and all Celgene exclusive licenses for Sotatercept and ACE-536 in a compounds. Celgene is a global biopharmaceutical company innovative therapies designed to treat cancer and immune-inf

Sotatercept Agreement

Under the terms of the Sotatercept Agreement, the Comp commercialization of sotatercept. The Company also granted the agreement, the Company and Celgene will jointly develop nonrefundable, upfront license and option payments to the Co

The Company retained responsibility for research, devel clinical supplies for these trials. These activities were substant myelodysplastic syndromes (MDS), chronic kidney disease, a additional Phase 2 clinical trials, and will be responsible for a contract manufacturing organizations. Under the agreement, to regulatory milestones of up to \$272.0 million, and commercia triggered upon initiation of a defined phase of clinical research acceptance of the marketing application and upon the approximation of the regulatory authorities. Commercial milestone paradefined levels of net sales by Celgene in countries outside of Company would be entitled to receive tiered royalty payment geographies. Royalty payments are subject to certain reduction

Additionally, for three named discovery-stage option proclinical milestones of up to \$53.3 million, regulatory mileston each option program. Clinical milestone payments are trigger Regulatory milestone payments are triggered upon the accept candidate by the FDA or other global regulatory authorities.

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Notes to F

10. Significant Agreements (continued)

product reaches certain defined levels of net sales by Celgene license of any of the option programs by Celgene. In addition entitled to receive tiered royalty payments in the low-to-mid payments are subject to certain reductions, including for entry has advanced to the stage to achieve payment of a milestone.

In connection with entering into the Sotatercept Agreem aggregate purchase price of \$5.0 million. The Series C-1 Pref the time of purchase. In the event that the Company's IPO res in a private offering concurrently with the IPO, shares of comgross proceeds from the IPO are greater than \$50.0 million or \$50.0 million.

Commensurate with the execution of the ACE-536 Agree the Sotatercept Agreement. The modified terms included: (1) Agreement, with Celgene responsible for more than half of the thereafter, (2) future contingent development milestones for swith potential future clinical milestones of \$27.0 million and indications) structure and, (3) future contingent development non-oncology) structure with potential future clinical milesto four-category (various cancer indications) structure, and (4) a with a one-time \$25.0 million payment on or prior to January December 31, 2012, the Company has received \$34.2 million the original and modified agreements. The next likely clinical Phase 2b clinical trial in chronic kidney disease.

The Sotatercept Agreement will expire on a country-by-royalty term with respect to all license products in such count option compound. The royalty term for each licensed product commercial sale of the applicable licensed product in the app a specified period of years. The royalty term for each licensed in North America and ending, on a licensed product and coun has ceased. The term for each option compound runs for a specompound becomes a licensed product, or forfeits its option in early clinical development of the option compound.

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Notes to F

10. Significant Agreements (continued)

Celgene has the right to terminate the agreement with re 45 days' notice if the licensed product has failed to meet certa. The agreement may also be terminated in its entirety by either the event of a bankruptcy filing of the other party. There are material financial consequences to the Company.

ACE-536 Agreement

Under the terms of the ACE-536 Agreement, the Compacommercialization of ACE-536. The Company also granted Capplication for the treatment of anemia. Celgene paid \$25.0 n

The Company retains responsibility for research, develo manufacturing the clinical supplies for these studies. Celgene manufacture ACE-536 for the Phase 1 and Phase 2 clinical tri commercial supplies by third party contract manufacturing or \$32.5 million, regulatory milestones of up to \$105.0 million a receive additional, lower development, regulatory, and comm Celgene exercises an option. Clinical milestone payments are candidate. Regulatory milestone payments are triggered upon therapeutic candidate by the FDA or other global regulatory a pharmaceutical product reaches certain defined levels of net s ACE-536 is commercialized, the Company would be entitled sales from sales generated from all geographies. Royalty pays the market. Through December 31, 2012, the Company has re for ACE-536. The next likely clinical milestone payment wou β-thalassemia. The Company has not yet identified additional Company will generate future value from additional program

The ACE-536 Agreement will expire on a country-by-coroyalty term with respect to all license products in such count each country outside North America is the period commencing country and ending on the latest of expiration of specified part product in North America is the period commencing with the

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Notes to F

10. Significant Agreements (continued)

country-by-country basis on the date which commercialization date on which no development or commercialization activitie ACE-536 Agreement; (2) the date on which no development licensed products under the Sotatercept Agreement and all op option compound where Celgene has made a payment with re ACE-536 Agreement and the Sotatercept Agreement has end compounds under the ACE-536 Agreement are in clinical deveither exercised or forfeited.

Celgene has the right to terminate the ACE-536 Agreem notice (or 45 days' notice if the licensed product has failed to activities), provided that Celgene may not terminate the ACE and ACE-536 MDS Phase 2 clinical trials, except under certa Celgene or the Company in the event of a material breach by cancellation, termination or refund provisions in this arranger

Both Agreements

The Company and Celgene shared development costs ur January 1, 2013, Celgene is responsible for paying 100% of v for all commercialization costs worldwide. The Company has agreements in North America. Celgene's option to buy down Company will receive tiered royalties in the low-to-mid twen sotatercept and ACE-536 are the same.

Accounting Analysis

Prior to 2011, the Company accounted for the Sotaterce amendments of ASU 2009-13). The Company identified the compound, (2) right to license option program compounds, (3 commercialization committee and (5) research and developm since the Company could not establish VSOE for the undelive consisting of the \$45.0 million of nonrefundable upfront licent delivered, which was initially estimated to be 15 years. As of \$34.7 million of deferred revenue under the arrangement.

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Notes to F

10. Significant Agreements (continued)

As a result of the material modifications to the cost shart Company concluded the modification represented a signification updated provisions of ASU 2009-13 subsequent to the modifi-

Because the ACE-536 Agreement and the amendment to Company had not yet completed all of its obligations pursuan for accounting purposes. The deliverables under the combine ACE-536, (2) performance of research and development serv of manufacturing services to provide clinical material to Celg treatment of anemia represents a substantive option. The Commodulate anemia and Celgene is not contractually obligated texercise the option.

All of these deliverables identified in the arrangement w separate units of accounting under ASC 605-25. Factors cons licenses, the nature of the research and development services.

The total arrangement consideration of \$77.7 million un (1) the \$25.0 million up-front payment for the license of ACE \$34.7 million, and (3) estimated payments for development a for each of the undelivered elements as the Company did not considered its development plan for the compounds, expected than half of development expenses through December 31, 20 undelivered elements under the arrangements as of the arrangements.

\$18.8 million for research and developme

\$2.9 million for the sotatercept joint deve

\$3.7 million for the ACE 536 joint develo

\$2.8 million for the manufacturing servic

After determining BESP of the undelivered elements, the arrangements. The difference between the estimated payment using BESP, for undelivered elements was \$10.2 million. This elements are delivered, using the proportional performance managements.

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Notes to F

10. Significant Agreements (continued)

During 2011, the Company achieved a \$7.5 million clini in a multiple-dose clinical trial. The Company evaluated the i uncertainty to achieving the milestone upon execution of the based on the allocation of arrangement consideration determi Agreement. Based on this allocation, the Company recognize recognized as revenue as the undelivered elements are delivered Company achieved a \$7.0 million clinical milestone under its clinical trial. The Company evaluated the milestone and deen ASU 2010-17 and, accordingly, recognized the \$7.0 million p 2013, the Company achieved a \$10.0 million clinical mileston Phase 2 clinical trial. The Company evaluated the milestone a included in ASU 2010-17. The remaining development miles substantive and consistent with the definition of a milestone i related to the achievement of such milestones, if any, when so scientific and regulatory risks that must be overcome to achie milestone, and the monetary value attributed to each mileston \$54.8 million and \$2.0 million, respectively, of the total defer operations and comprehensive income (loss).

Pursuant to the terms of the agreement, Celgene and the than half of the costs for sotatercept and ACE-536 until Dece from Celgene with respect to research and development costs Company to Celgene for research and development costs incuryears ended December 31, 2011 and 2012 the Company recommendates payments to Celgene of \$2.8 million and \$2.8 million.

Other Agreements

Shire License

In September 2010, the Company entered into a license manufacture and commercialize ActRIIB compounds in territ manufacture commercial supplies in North America for ActR initial development plan, the companies share the costs assoc Dystrophy. In September 2010, Shire

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Notes to F

10. Significant Agreements (continued)

made a nonrefundable, up-front license payment to the Comp prior to the adoption of ASU 2009-13, the up-front license pathree years, which represented the original period over which manufacturing services. On February 8, 2011, the FDA place deliverables under the license agreement and estimated the ne accounting estimate with the remaining deferred revenue of \$ research and development and manufacturing services. In Ap ACE-031 and Shire sent the Company a notice of termination 2013. At December 31, 2012, the Company had classified the of the termination of the Shire Agreement in the second quart deferred revenue from upfront non-refundable payments recet the Shire Agreement. During the years ended December 31, 2 of the up-front, non-refundable payments as license and miles income (loss).

The agreement also included contingent milestone paym and commercial milestones of \$228.8 million for ActRIB co and consistent with the definition of a milestone included in a achievement of such milestones, if any, when such milestone regulatory risks that must be overcome to achieve the milestone monetary value attributed to each milestone.

Pursuant to the terms of the agreement, Shire and the Co ACE-031 and 55% of the costs for licensed compounds other costs incurred by the Company are recorded as cost-sharing r incurred by Shire are recorded as a reduction to cost-sharing recorded net cost-sharing revenue of \$4.1 million and \$2.7 m \$0.7 million, respectively, which are recorded as contra-revenue.

Alkermes License

In December 2009, the Company entered into a Collabor proprietary technology platform for extending the circulating Company an up-front cash payment of \$2.0 million in Decement term. In addition, Alkern

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Notes to F

10. Significant Agreements (continued)

636,942 shares of Series D-1 Preferred Stock at a per share processing Company determined that the price of \$12.56 paid by Alkern Preferred Stock of \$10.24 as calculated by the Company in its premium of \$1.5 million as additional license revenue on a stadiscontinued development of the compounds being investigated remaining \$2.4 million of the up-front payment as revenue, as

As the principal in the collaboration, Acceleron recognized year ended December 31, 2011, the Company recognized net periods.

ImmunoGen Services Agreement

In October 2010, the Company entered into a Biopharma and manufacture an ImmunoGen product. The Company deter proportional performance method. Accordingly, the Company associated with the services were charged to operations as increcorded revenue of \$1.7 million for the year ended December

Other

The Company entered into a license agreement with a non-sub-licensable license for Secondary Licensed Products. common stock to the institution, the fair value of which was Scompany also agreed to pay specified development milestone. In addition, the Company is obligated to pay milestone fees be revenue ranging from 10%-25%, as well as a royalty ranging 2011 and 2012, the Company paid and expensed milestones at The Company also paid \$0.5 million and zero in 2011 and 200 recorded as research and development expense.

The Company entered into another license agreement will license to certain patents developed by the individuals. The C aggregating up to \$1.0 million relating to the development an royalties in the low single-digits on worldwide net product sa period of time after patent expiration. If the Company sublice

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Notes to F

10. Significant Agreements (continued)

sublicensing revenue, excluding payments based on the level December 31, 2011 and 2012, the Company did not reach any or expensed.

During 2012, the Company executed a license agreement royalty-bearing license. The Company is obligated to pay dev. Under the agreement, if the Company uses the inventors in the milestones shall change to \$0.8 million plus any waived mile well as royalties of 1.5% of net sales on any products develop not reach any milestones defined under the agreement and, the

11. Stock-Based Compensation

The Company's 2003 Stock Option and Restricted Stock awards, and restricted stock to employees, officers, directors, December 31, 2012, the total number of shares of common st options available for future grant was 119,542 at December 3 shareholders

The Company has not granted unrestricted stock awards to the estimated fair value of the Company's common stock o Stock options and restricted stock awards typically vest over

Shares of the Company's common stock underlying any settlement of an award to cover the exercise price or tax with of shares of the Company's common stock, or otherwise term available for issuance under the 2003 Plan. Shares available f Company's common stock or shares of the Company's common stock or shares or sha

During 2010, the Company modified the awards of three vested options post termination. The changes ranged from 3.5 and the fair value of the unvested options that were modified years ended December 31, 2011 and 2012, non-employee sto

The Company recognized stock-based compensation exp 2011 and 2012, respectively.

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11. Stock-Based Compensation (continued)

Total compensation cost recognized for all stock-based (loss) is as follows (in thousands):

	Year Ended December 31,		
	2	011	201
Research and development	\$	686	\$
General and administrative		741	
	\$	1,427	\$ 1,

The fair value of each option issued to employees was exfollowing weighted-average assumptions (in thousands):

		Year Ended December 31,	
	2011	2012	
Expected volatility	66.0%	69.0	
Expected term (in years)	6.0	6.0	
Risk-free interest rate	1.1%	0.9	
Expected dividend yield	%)	

Fair Value of Underlying Instrument

The Company estimates the fair value of its stock-based

Expected Volatility

The Company estimated the expected volatility based or publicly-traded equity securities. The Company calculated the period of the expected term of the associated award. The comthe industry, and with historical share price information suffice volatility would decrease the fair value of the underlying inst

Expected Term

The Company estimates the expected life of its employe Bulletin (SAB) No. 107, whereby, the expected life equals the option due to its lack of sufficient historical data.

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Notes to F

11. Stock-Based Compensation (continued)

Risk-Free Interest Rate

The Company estimated the risk-free interest rate in referent with the expected term of the associated award. A decrease in instrument.

Expected Dividend Yield

The Company estimated the expected dividend yield bas expectations. The Company has not historically declared or p future, but instead expects to retain any earnings to invest in expected dividend yield of 0.0%.

Stock Options

The following table summarizes the stock option activity

Outstanding at December 31, 2011

Granted

Exercised

Canceled or forfeited

Outstanding at December 31, 2012

Exercisable at December 31, 2012

Vested and expected to vest at December 31, 2012(2)

(1) The aggregate intrinsic value is calculated as the difference common stock for the options that were in the money at Γ

(2)

This represents the number of vested options at December on the unvested options outstanding at December 31, 201:

During the years ended December 31, 2011 and 2012, the shares of its common stock, respectively, with a weighted-average of the shares of the

During the years ended December 31, 2011 and 2012, coptions, respectively, resulting in total proceeds of \$0.2 million

The aggregate intrinsic value of options exercised during

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Notes to F

11. Stock-Based Compensation (continued)

As of December 31, 2012, there was \$4.4 million of unruto be recognized over a weighted-average period of 2.9 years

12. 401(k) Savings Plan

In 2004, the Company established a defined-contribution The 401(k) Plan covers all employees who meet defined minitheir annual compensation on a pretax basis. The Company h

13. Income Taxes

The Company provides for income taxes under ASC 740 Under this method, deferred tax assets and liabilities are detelliabilities, and are measured using the enacted tax rates and la

For the years ended December 31, 2011 and 2012, the C

The Company's income (loss) before income taxes was sepectively, and was generated entirely in the United States.

Deferred taxes are recognized for temporary differences purposes. The significant components of the Company's defe-

Deferred tax assets:

U.S. and state net operating loss carryforwards

Research and development credits

Deferred revenue

Accruals and other temporary differences

Total deferred tax assets

Less valuation allowance

Net deferred tax assets

The Company has evaluated the positive and negative evaluation allowance increased by \$11.2 million during the yeduring the period. The valuation allowance decreased by \$14 of net operating losses during the period.

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13. Income Taxes (continued)

A reconciliation of income tax expense computed at the statements is as follows:

Federal income tax expense at statutory rate State income tax, net of federal benefit Permanent differences Research and development credit Other Change in valuation allowance

Effective income tax rate

As of December 31, 2011 and 2012, the Company had Urespectively, which may be available to offset future income and 2012, the Company also had U.S. state net operating loss available to offset future income tax liabilities and expire at v. Company's collaboration agreement with Celgene, the Comparcarryforwards in 2011.

As of December 31, 2011 and 2012, the Company had for \$3.8 million, respectively, available to reduce future tax liabilizable, the Company had state research and development tax cavailable to reduce future tax liabilities which expire at various

Under the provisions of the Internal Revenue Code, the adjustment by the Internal Revenue Service and state tax authannual limitation in the event of certain cumulative changes i excess of 50 percent, as defined under Sections 382 and 383 could limit the amount of tax attributes that can be utilized an limitation is determined based on the value of the Company is further affect the limitation in future years. The Company has change in control as defined by Sections 382 and 383 of the I

The Company will recognize interest and penalties related 2012, the Company had no accrued interest or penalties related statements of operations and comprehensive income (loss).

For all years through December 31, 2012, the Company activities. This study may result in an adjustment to the

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Notes to F

13. Income Taxes (continued)

Company's research and development credit carryforwards; h being presented as an uncertain tax position for these two yea and development credits and, if an adjustment is required, thi for the research and development credit carryforwards and the

The Company files income tax returns in the United Stat generally subject to tax examinations for the tax years ended attribute carryforwards, the tax years in which the attribute w Service, state or foreign tax authorities to the extent utilized i

14. Long-Term Debt

On June 26, 2009, the Company entered into a Senior Lofor a total funding commitment of \$10.0 million. The Compa were interest only, and the principal balance plus accrued into annum. The Company was not subject to any financial coven substantially all of the assets of the Company other than intel In accordance with the 2009 Senior Loan Agreement, the Cora fair value at issuance of \$0.3 million. The fair value of the value of issue was treated as a discount to the debt and acceptable and 2011 and 2012, the outstanding balance under the 2009 Senior

On March 18, 2010, the Company entered into a loan melenders as the 2009 Senior Loan Agreement. The 2010 Loan \$10.0 million. As of December 31, 2011 and 2012, the outsta zero, respectively. The Company was required to make paym principal balance plus accrued interest was payable over the r subject to any financial covenants under this arrangement. The of the Company other than intellectual property and certain p Loan Modification Agreement, the Company issued warrants issuance of \$0.5 million. The fair value of the warrants, which was treated as a discount to the debt and accreted to interest each subject to the s

On June 7, 2012, the Company entered into a loan and swhich the Company received a loan in the aggregate principal balance under the Loan Agreement in 42 months. The first 12

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Notes to F

14. Long-Term Debt (continued)

are equal monthly installments of principal plus interest. The certain circumstances. The Company did not trigger the requi

Per annum interest is payable at the 8.5%. The Loan Agreost over the 42 months of loan. The Loan Agreement is also payment. The Company is recording the deferred payment to interest rate is approximately 11.8%. The company is not subthe Company's personal property as of, or acquired after, the

The Loan Agreement defines events of default, including Company's business operations, properties, assets or condition accordance with the terms of the Loan Agreement, or upon the obligations, or upon the collateral under the Loan Agreement. The lenders also received a right, to purchase at fair value, upparties of equity securities resulting in at least \$5.0 million in December 31, 2012, there have been no events of default und \$20.0 million.

At December 31, 2012, future minimum payments related

Year ending December 31:	
2013	\$
2014	
2015	
Less amounts representing interest	
Less Deferred Fee	
Future minimum principal payments	
Less current portion	
Noncurrent financing obligations	\$
15 Related Party Transactions	

15. Related Party Transactions

Celgene Corporation (Celgene)

In connection with its entry into the collaboration agreer its Series C-1 Preferred Stock. As part of the Company's June Stock and received warrants to purchase 38,979 shares of corpurchased 1,990,446 shares of Series F Preferred Stock. As a equity as of December 31, 2012. Refer to Note 10 for additional contents of the connection of the contents of the company's June Stock and received warrants to purchase 38,979 shares of corpurchased 1,990,446 shares of Series F Preferred Stock.

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Notes to F

15. Related Party Transactions (continued)

During the year ended December 31, 2012, the Company arrangement and, as of December 31, 2012, had \$10.3 million

The Company recognized revenue from Celgene during

	Year Ended December		
	2011		20
License and milestone	\$	63,607	\$
Cost sharing, net		(121)	
	\$	63,486	\$

Alkermes

One of the Company's directors is also the Chairman, Pr Alkermes, with which the Company entered into a collaborat

As of December 31, 2012, Alkermes held 695,250 share common stock. For the year ended December 31, 2011, Alker the Company during 2012.

Related-Party Receivable

On January 28, 2008, the Company issued a secured prochief executive officer of the Company (the CEO). The Note repayable on the earlier of January 28, 2011, or the date prior shares of its common stock. The Note Receivable is secured by 2010, the term was extended until January 28, 2014, or the date covering shares of its common stock.

In November 2012, the Company further modified the te or the company files a registration statement with the SEC on Company evaluated the forgiveness provisions and determine continued to record the Note Receivable as an asset at Decem SEC on August 6, 2013 which triggered the forgiveness of th totaling \$0.2 million as compensation expense during 2013.

16. Subsequent Events

The Company has completed an evaluation of all subseq September 5, 2013, to ensure that this filing includes appropr December 31, 2012,

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Notes to F

16. Subsequent Events (continued)

and events which occurred subsequently but were not recognievents have occurred that require disclosure, except as disclosure.

On September 4, 2013, the Board approved the followin

A 1-for-4 reverse stock split of the Comp effective on September 5, 2013. All share notes have been retroactively revised to re-

The adoption of the 2013 Equity Incentive 1,500,000 shares of common stock under issuance under the 2003 Plan and (ii) and reserved and available for issuance under lesser of (i) 3,150,000 shares, or (ii) 4% commediately preceding December 31st. To ther change in the Company's capitalization.

The adoption of the 2013 Employee Stoc Company's common stock will be available common stock during pre-specified purch of its common stock at the beginning of the end of the purchase period. The Board under the 2013 ESPP, although the initial

On September 4, 2013, the Board also approved for filin in connection with its IPO, the Restated Certificate of Incorport 104,013,161 to 175,000,000, to authorize 25,000,000 shares or references to the previously designated Series Preferred Stock September 4, 2013.

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Condensed Balance Sheets as of September 30, 2013 and Dec Condensed Statements of Operations and Comprehensive Inc 2012

Condensed Statements of Cash Flows for the Nine Months En

Notes to Unaudited Interim Condensed Financial Statements

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•

(amounts in thou

Assets

Current assets:

Cash and cash equivalents

Collaboration receivables (includes related party amounts of December 31, 2012, respectively)

Prepaid expenses and other current assets

Total current assets

Property and equipment, net

Restricted cash

Related party receivables

Other assets

Total assets

Liabilities, redeemable convertible preferred stock and st

Current liabilities:

Accounts payable

Accrued expenses (includes related party amounts of \$0 and \$

December 31, 2012, respectively)

Deferred revenue

Deferred rent

Notes payable, net of discount

Total current liabilities

Deferred revenue, net of current portion

Deferred rent, net of current portion

Notes payable, net of current portion and discount

Warrants to purchase redeemable convertible preferred stock

Warrants to purchase common stock

Total liabilities

Commitments and contingencies (Note 13)

Redeemable convertible preferred stock

Stockholders' equity (deficit):

Undesignated preferred stock, \$0.001 par value: 25,000,000 soutstanding at September 30, 2013; No shares authorized, iss Common stock, \$0.001 par value: 175,000,000 and 104,013,1 and December 31, 2012, respectively; 28,069,579, and 2,432. September 30, 2013 and December 31, 2012, respectively

Additional paid-in capital

Accumulated deficit

Total stockholders' equity (deficit)

Total liabilities, redeemable convertible preferred stock and s
See accompanying n

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Condensed Statemen

(amounts in

Revenue:	
Collaboration revenue	ue:
License and mileston	ne
Cost-sharing, net	
Total revenue(1)	
Costs and expenses:	
Research and develo	
General and adminis	
Total costs and expe	enses
(Loss) income from	operations
Other (expense) inco	ome:
Other (expense) inco	ome, net
Interest income	
Interest expense	
Total other expense,	net
Net loss	
Comprehensive loss	
	t loss to net loss applicable to common st
Net loss	
Accretion of divider convertible preferred	nds, interest, redemption value and issuand stock

Includes related party revenue (Note 18)

applicable to common stockholders:

Basic and diluted

Basic and diluted

Gain on extinguishment of redeemable convertible preferred

Net loss applicable to common stockholders basic and dilute

Net loss per share applicable to common stockholders: (Note

Weighted-average number of common shares used in comput

216

4,270

See accompanying n

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Conden

Operating Activities

Net loss

Adjustments to reconcile net loss to net cash used in operating

Depreciation and amortization

Stock-based compensation

Amortization of debt discount

Accretion of deferred interest

Amortization of deferred debt issuance costs

Change in fair value of warrants

Gain on retirement of warrants

Forgiveness of related party receivable

Changes in assets and liabilities:

Prepaid expenses and other current assets

Collaboration receivables

Related party receivable

Accounts payable

Accrued expenses

Deferred revenue

Deferred rent

Net cash used in operating activities

Investing Activities

Purchases of property and equipment

Net cash used in investing activities

Financing Activities

Proceeds from issuance of common stock from initial public Proceeds from issuance of common stock from private placer

Proceeds from long-term debt, net of issuance costs

Payments of long-term debt

Payments made to repurchase redeemable convertible preferr common stock

Proceeds from exercise of stock options and warrants to purc

Net cash provided by financing activities

Net increase (decrease) in cash and cash equivalents

Cash and cash equivalents at beginning of period

Cash and cash equivalents at end of period

Supplemental Disclosure of Cash Flow Information:

Cash paid for interest

Supplemental Disclosure of Non-Cash Investing and Fina Accretion of dividends, interest, redemption value, and issuar

Cashless exercise of warrants

Initial public offering costs included in accounts payable and

Reclassification of warrant liability to additional paid-in capi

Conversion of redeemable convertible preferred stock into co

See accompanying n

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Notes to Unaudited

1. Nature of Business

Acceleron Pharma Inc. (Acceleron or the Company) was The Company subsequently changed its name to Acceleron P Cambridge, Massachusetts-based biopharmaceutical company therapeutics for cancer and rare diseases. The Company's reseprotein superfamily, a large and diverse group of molecules the coupling its discovery and development expertise, including a engineering and manufacturing capabilities, the Company has numerous innovative protein therapeutics with novel mechant that are currently being studied in 12 ongoing Phase 2 clinical

The Company is subject to risks common to companies never achieves profitability, the need for substantial additional dependence on key personnel, protection of proprietary technical

2. Basis of Presentation

The accompanying financial statements have been preparation of America (GAAP). Any reference in these notes to applicate accounting principles as found in the Accounting Standards CAccounting Standards Board (FASB).

The accompanying interim balance sheet as of September nine months ended September 30, 2013 and 2012 and statemer financial data and other information disclosed in these notes a unaudited interim financial statements have been prepared on ended December 31, 2012, and, in the opinion of management the fair presentation of the Company's financial position as of and nine months ended September 30, 2013 and 2012.

The results for the nine months ended September 30, 20 December 31, 2013, any other interim periods, or any future the audited financial statements as of and for the year ended I Prospectus that forms a part of the Company's Registration Stand Exchange Commission (the SEC) pursuant to Rule 424(b)

On September 24, 2013 the Company completed its initi stock (including 837,000 shares of common stock sold by

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Notes to Unaudited Interi

2. Basis of Presentation (continued)

the Company pursuant to the full exercise of an overallotmen share. The shares began trading on the Nasdaq Global Select Company from the offering were \$86.8 million, net of underst Company. Upon the closing of the IPO, all outstanding share and warrants exercisable for convertible preferred stock were stock, resulting in the reclassification of the related convertib Additionally, the Company is now authorized to issue 175,00 stock.

On September 24, 2013 the Company also completed the Corporation at the IPO price of \$15.00 per share concurrent with the Company from the concurrent private placement were \$10.00 per share concurrent private placement private plac

On August 23, 2013, the board of directors (the Board) at the Company's outstanding common stock, which was effected reverse stock split will receive a cash payment in lieu of receive have been retroactively adjusted to give effect to this reverse equity instruments were proportionately reduced and the respective with the terms of the agreements governing such securities.

The accompanying condensed financial statements reflective elsewhere in these notes to the financial statements. As of Sej which are detailed in the Company's Prospectus, have not characteristics.

3. Use of Estimates

The preparation of financial statements in conformity we reported amounts of assets and liabilities, the disclosure of commounts expensed during the reporting period. Actual results

Management considers many factors in selecting appropassumptions that are used in the preparation of these financial addition, other factors may affect estimates, including: expect assumptions used in developing estimates, and whether historoften may yield a range of potentially reasonable estimates of within that range of reasonable estimates. This process may repreparation of the financial statements if these results differ fraccurate, even if such assumptions are reasonable when made

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Notes to Unaudited Interi

3. Use of Estimates (continued)

management used significant estimates in the following areas determination of the fair value of stock-based awards, the fair the Company's net deferred tax assets and related valuation at

The Company utilized significant estimates and assumpt IPO. The Board determined the estimated fair value of the Coincluding external market conditions affecting the biotechnol convertible preferred stock, the superior rights and preference of achieving a liquidity event, such as an IPO or sale of the Co

4. Segment Information

Operating segments are identified as components of an evaluation by the chief operating decision maker, or decision performance. The Company's chief operating decision maker Company's operations and manage its business as one operation States. The Company does use contract research organization expenses are subject to collaboration reimbursement which is comprehensive loss.

5. Cash and Cash Equivalents and Restricted cash

The Company considers all highly liquid investments purequivalents. Cash and cash equivalents include cash held in bear carried at cost, which approximates their fair market value letters of credit totaling \$0.9 million held in the form of a more credit cards.

6. Concentrations of Credit Risk and Off-Balance Sheet R

The Company has no off-balance sheet risk, such as fore Financial instruments that potentially subject the Company to and accounts receivable. The Company maintains its cash and institutions that management believes are creditworthy. The C and financial instruments and defines allowable investments

The Company routinely assesses the creditworthiness of material losses related to receivables from individual custome require collateral. Due to

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Notes to Unaudited Interi

6. Concentrations of Credit Risk and Off-Balance Sheet R

these factors, no additional credit risk beyond amounts provid accounts receivable.

7. Fair Value Measurements

ASC Topic 820, Fair Value Measurement (ASC 820), e distinguishes between assumptions based on market data (obs Observable inputs are inputs that market participants would us independent of the Company. Unobservable inputs are inputs would use in pricing the asset or liability, and are developed by

ASC 820 identifies fair value as the exchange price, or e transfer a liability in an orderly transaction between market p measurements, ASC Topic 820 establishes a three-tier fair va

Level 1 Quoted market prices in active r

Level 2 Inputs other than Level 1 inputs rates, and yield curves.

Level 3 Unobservable inputs developed market participant would use.

To the extent that the valuation is based on models or in value requires more judgment. Accordingly, the degree of judinstruments categorized in Level 3. A financial instrument's lesignificant to the fair value measurement.

Items measured at fair value on a recurring basis include purchase common stock (Note 7). During the periods present that are measured at fair value using Level 3 inputs.

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Notes to Unaudited Interi

7. Fair Value Measurements (continued)

The following tables set forth the Company's financial in financial instrument as of September 30, 2013 and December

Assets:

Money market funds Restricted cash

Total assets

Liabilities:

Warrants to purchase redeemable convertible preferred stock

Warrants to purchase common stock

Total liabilities

Assets:

Money market funds

Restricted cash

Total assets

Liabilities:

Warrants to purchase redeemable convertible preferred stock Warrants to purchase common stock

Total liabilities

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Notes to Unaudited Interi

7. Fair Value Measurements (continued)

The following table sets forth a summary of changes in thave been classified within Level 3 of the fair value hierarchy thousands):

	Three Months Ended September 30,			N		
		2013		2012	:	2
Beginning balance	\$	7,390	\$	5,089	\$	
Change in fair value		11,149		(132)		
Exercises						
Repurchases						
Conversions		(2,013)				
Ending balance	\$	16,526	\$	4,957	\$	

The money market funds noted above are included in ca recognizes transfers between levels of the fair value hierarchy during the nine months ended September 30, 2013 or the year redeemable convertible preferred stock as described below.

During the three and nine months ended September 30, 2 were converted to warrants to purchase common stock. The repermanent equity and are no longer required to be measured a

The fair value of the warrants to purchase preferred stock pricing model at the date of issuance and on each re-measures the Company's various classes of preferred stock, stock price yields. Due to the nature of these inputs, the valuation of the of the accounting for the warrants, as well as for a summary of warrants.

The fair value of warrants to purchase common stock the valuation involves using inputs such as the fair value of a sha Due to the nature of these inputs, the valuation fo the warrant

The Company measures eligible assets and liabilities at elected either upon initial recognition of an eligible asset or li accounting. The Company did not elect to remeasure any of i any financial assets and liabilities transacted in the nine mont

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Notes to Unaudited Interi

7. Fair Value Measurements (continued)

The Company accounts for uncertain tax positions in accompany recognizes the tax benefit of tax positions to the ex whether the tax benefit will more likely than not be realized i available facts and circumstances. As of September 30, 2013 positions.

8. Net Loss Per Share

The following common stock equivalents were excluded including them would have had an anti-dilutive effect (in thou

	Three Months Ended September 30,		
	2013	2012	
Outstanding stock options	3,667	3,352	
Common stock warrants	881	884	
Preferred stock	16,658	18,166	
Preferred stock warrants	130	248	
	21,336	22,650	

9. Comprehensive Income (Loss)

Comprehensive income (loss) is defined as the change in circumstances from non-owner sources. Comprehensive inco which includes certain changes in equity that are excluded fro statements of operations and comprehensive income (loss) an

10. Subsequent Events

The Company considers events or transactions that occu provide additional evidence relative to certain estimates or to subsequent events and determined that there are no material r

11. Recently Adopted Accounting Pronouncements

From time to time, new accounting pronouncements are as of the specified effective date. Unless otherwise discussed, effective will not have a material impact on its financial posit

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Notes to Unaudited Interi

12. Warrants

Below is a summary of the number of shares issuable up outstanding warrants (in thousands, except per share data):

Warrants as of

\$	September 30 2013	ecemb 201
Warrant to purchase Series A	2012	201
Preferred Stock		
Warrants to purchase Series B		
Preferred Stock		
Warrants to purchase Series C-1		
Preferred Stock		
Warrants to purchase Series D-1		
Preferred Stock		
Warrants to purchase Common		
Stock	32	
Warrants to purchase Common		
Stock	46	
Warrants to purchase Common		
Stock	64	
Warrants to purchase Common		
stock	858	
Warrants to purchase Common		
stock	13	
All warrants	1,013	1.
::	1,010	•

⁽¹⁾ On February 6, 2013, the warrant holder exercised a warrant of 47 shares of Series A Preferred Stock.

In connection with various financing transactions that w warrants for the purchase of up to 106,500 shares of the Com 31,891 shares of the Company's Series B redeemable convert Series C-1 redeemable convertible preferred stock (Series C-convertible preferred stock (Series D-1 Preferred Stock). Eac Series B Preferred Stock expire seven years from the original Preferred Stock expire ten years from the original date of issu exercise price equal to the original issuance price of the unde share settlement basis and the redemption provisions are outs IPO on September 24, 2013, the outstanding warrants to purc

⁽²⁾ Warrants to purchase Series B Preferred Stock, Series C-l common stock at the closing of the IPO on September 24,

⁽³⁾ Warrants to purchase common stock were issued in connect December 31, 2012. See discussion below for further details

Stock were converted into warrants to purchase common stoc

The Company follows the provisions of ASC Topic 480 *Shares that Are Redeemable*, which requires that warrants to value of the warrants is remeasured to the then-current fair va (expense), net. For the three months ended September 30, 20

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Notes to Unaudited Interi

12. Warrants (continued)

months ended September 30, 2013 and 2012, the Company re Company's preferred stock up until the conversion of such was fair value of \$1.0 million, \$0.0 million, \$1.3 million and \$0.0 accompanying statements of operations and comprehensive to purchase preferred shares into warrants to purchase commercelassified to permanent equity and therefore, is no longer such as the company of the company o

In December 2012, the Company modified the warrant t date from December 21, 2012 to February 28, 2013. During t warrant on a net basis, resulting in the issuance of 46,668 sha value of the warrant and recorded the resulting increase in fair operations and comprehensive loss for the nine months ended

In connection with the Series E redeemable convertible June 2010 and July 2010, the Company issued warrants to pu exercisable and expires ten years from the original date of iss exercise price equal to the estimated fair value of the underly exercisable on either a physical settlement or net share settler requiring an adjustment to the number of shares in the event t common stock, at a price per share lower than the warrant exto be classified as liabilities under ASC Topic 815, Derivativ measured at fair value, with changes in fair value recognized comprehensive income (loss) for each reporting period therea preferred stock issued of \$3.0 million, and the preferred stock the Company remeasured the fair value of the outstanding wa \$10.1 million, (\$0.1 million), \$11.3 million, and \$0.5 million of operations and comprehensive loss for the three months en and 2012. The Company will continue to re-measure the fair end of each reporting period until the earlier of the exercise o 13,994 warrants to purchase common stock as a consequence were fully vested and exercisable as of September 30, 2013 a

In connection with various financing transactions that w warrants to purchase up to 12,634 shares of common stock. T equity instruments.

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Notes to Unaudited Interi

12. Warrants (continued)

The warrants are exercisable at any time through their respect Black-Scholes option-pricing model, and was charged to inte

The Company issued warrants to purchase up to 41,388 consulting services provided by a third party pursuant to standarrants vested upon achievement of four milestones and we no exercises, cancellations, or expirations of warrants during

Fair Value

The fair value of the warrants to purchase preferred stock purchase preferred stock classified as liabilities, was estimate using inputs such as the fair value of the Company's various of the warrants, risk free interest rates, and dividend yields. To on each re-measurement date for those warrants to purchase of simulation framework, which incorporated three future finance to the nature of these inputs and the valuation techniques utility considered a Level 3 measurement (Note 7).

13. Commitments and Contingencies

Legal Proceedings

On October 18, 2012, the Salk Institute for Biological St County, alleging that the Company breached one of the Comprovides the Company with a license with respect to certain of that, under the licensing agreement, the Company owed Salk agreement with Shire AG regarding ACE-031 and a share of received under its ongoing collaboration agreement with Celginterest in payment and a 15% share of future development of The Company contends that no additional amounts are due to applicable Salk license agreement.

The Company moved to dismiss the complaint on Decer March 14, 2013, Acceleron answered the complaint and asser removed the action on March 28, 2013 to the United States D agreement on a stipulation as to certain patent issues raised in scheduling conference

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Notes to Unaudited Interi

13. Commitments and Contingencies (continued)

on May 30, 2013, and the parties have begun fact discovery. defend its position vigorously.

The Company evaluated the suit under ASC Topic 450, shall be accrued if information available before the financial date of the financial statements, and the amount of loss can be unfavorable outcome is not probable, it has not established a

The Company's estimates can be affected by various fac determined a loss is reasonably possible. Although the Comp participated in settlement discussions with Salk. Accordingly and December 31, 2012 to be between \$0 and \$10.5 million participated in settlement discussions with Salk.

Other

The Company is also party to various agreements, principal milestones not met at September 30, 2013 and December 31, payments under these agreements are expected to be payable

The Company enters into standard indemnification agreed indemnifies, holds harmless, and agrees to reimburse the inde Company's business partners or customers, in connection with by any third party with respect to the Company's products. The execution of the agreement. The maximum potential amount indemnification agreements is unlimited. The Company has reindemnification agreements.

14. Significant Agreements

Celgene

Overview

On February 20, 2008 the Company entered into a collal Corporation (Celgene) relating to sotatercept. On August 2, 2 with Celgene for ACE-536 (the ACE-536 Agreement), and al Celgene exclusive licenses for Sotatercept and ACE-536 in a compounds. Celgene is a global biopharmaceutical company innovative therapies designed to treat cancer and immune-inf

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Notes to Unaudited Interi

14. Significant Agreements (continued)

Sotatercept Agreement

Under the terms of the Sotatercept Agreement, the Company also granted the agreement, the Company and Celgene will jointly develop nonrefundable, upfront license and option payments to the Company and Celgene will jointly develop nonrefundable.

The Company retained responsibility for research, devel clinical supplies for these trials. These activities were substant myelodysplastic syndromes (MDS), chronic kidney disease, a additional Phase 2 clinical trials, and will be responsible for contract manufacturing organizations. Under the agreement, to regulatory milestones of up to \$272.0 million, and commercia triggered upon initiation of a defined phase of clinical research acceptance of the marketing application and upon the approximation of the regulatory authorities. Commercial milestone paradefined levels of net sales by Celgene in countries outside of Company would be entitled to receive tiered royalty payment geographies. Royalty payments are subject to certain reduction

Additionally, for three named discovery-stage option proclinical milestones of up to \$53.3 million, regulatory milestone each option program. Clinical milestone payments are trigger Regulatory milestone payments are triggered upon the accept candidate by the FDA or other global regulatory authorities. Opposed to the scretain defined levels of net sales by Celgene license of any of the option programs by Celgene. In addition entitled to receive tiered royalty payments in the low-to-mid payments are subject to certain reductions, including for entry has advanced to the stage to achieve payment of a milestone.

In connection with entering into the Sotatercept Agreem aggregate purchase price of \$5.0 million. The Series C-1 Pref the time of purchase. Concurrent with the IPO, Celgene purcl

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Notes to Unaudited Interi

14. Significant Agreements (continued)

Commensurate with the execution of the ACE-536 Agree the Sotatercept Agreement. The modified terms included: (1) Agreement, with Celgene responsible for more than half of the thereafter, (2) future contingent development milestones for swith potential future clinical milestones of \$27.0 million and indications) structure and, (3) future contingent development non-oncology) structure with potential future clinical milesto four-category (various cancer indications) structure, and (4) a with a one-time \$25.0 million payment on or prior to January September 30, 2013, the Company has received \$34.5 million the original and modified agreements. The next likely clinical Phase 2b clinical trial in chronic kidney disease.

The Sotatercept Agreement will expire on a country-by-royalty term with respect to all license products in such count option compound. The royalty term for each licensed product commercial sale of the applicable licensed product in the app a specified period of years. The royalty term for each licensed in North America and ending, on a licensed product and coun has ceased. The term for each option compound runs for a specompound becomes a licensed product, or forfeits its option in early clinical development of the option compound.

Celgene has the right to terminate the agreement with re 45 days' notice if the licensed product has failed to meet certa. The agreement may also be terminated in its entirety by either the event of a bankruptcy filing of the other party. There are material financial consequences to the Company.

ACE-536 Agreement

Under the terms of the ACE-536 Agreement, the Compacommercialization of ACE-536. The Company also granted Onew Drug application for the treatment of anemia. Celgene p

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Notes to Unaudited Interi

14. Significant Agreements (continued)

The Company retains responsibility for research, develor manufacturing the clinical supplies for these studies. Celgene manufacture ACE-536 for the Phase 1 and Phase 2 clinical tracommercial supplies by third party contract manufacturing or \$32.5 million, regulatory milestones of up to \$105.0 million a receive additional, lower development, regulatory, and comma Celgene exercises an option. Clinical milestone payments are candidate. Regulatory milestone payments are triggered upon therapeutic candidate by the FDA or other global regulatory apharmaceutical product reaches certain defined levels of net states. ACE-536 is commercialized, the Company would be entitled sales from sales generated from all geographies. Royalty payothe market.

Through September 30, 2013, the Company has received ACE-536. The next likely clinical milestone payment would β-thalassemia. The Company has not yet identified additional Company will generate future value from additional program

The ACE-536 Agreement will expire on a country-by-coroyalty term with respect to all license products in such counter each country outside North America is the period commencing country and ending on the latest of expiration of specified part product in North America is the period commencing with the country-by-country basis on the date which commercialization date on which no development or commercialization activities ACE-536 Agreement; (2) the date on which no development licensed products under the Sotatercept Agreement and all oppoption compound where Celgene has made a payment with re ACE-536 Agreement and the Sotatercept Agreement has end compounds under the ACE-536 Agreement are in clinical deveither exercised or forfeited.

Celgene has the right to terminate the ACE-536 Agreem notice (or 45 days' notice if the licensed product has failed to activities), provided that Celgene may not terminate the ACE

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Notes to Unaudited Interi

14. Significant Agreements (continued)

ACE-536 β -thalassemia and ACE-536 MDS Phase 2 clinical entirety by either Celgene or the Company in the event of a n party. There are no cancellation, termination or refund provis Company.

Both Agreements

The Company and Celgene shared development costs ur January 1, 2013, Celgene is responsible for paying 100% of v for all commercialization costs worldwide. The Company has agreements in North America. Celgene's option to buy down Company will receive tiered royalties in the low-to-mid twen sotatercept and ACE-536 are the same.

Accounting Analysis

Prior to 2011, the Company accounted for the Sotaterce amendments of ASU 2009-13). The Company identified the compound, (2) right to license option program compounds, (3 commercialization committee and (5) research and developm since the Company could not establish VSOE for the undeliveronsisting of the \$45.0 million of nonrefundable upfront licent delivered, which was initially estimated to be 15 years. As of \$34.7 million of deferred revenue under the arrangement.

As a result of the material modifications to the cost share Company concluded the modification represented a significant updated provisions of ASU 2009-13 subsequent to the modification.

Because the ACE-536 Agreement and the amendment to Company had not yet completed all of its obligations pursuant for accounting purposes. The deliverables under the combine ACE-536, (2) performance of research and development serv of manufacturing services to provide clinical material to Celg treatment of anemia represents a substantive option. The Commodulate anemia and Celgene is not contractually obligated texercise the option.

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Notes to Unaudited Interi

14. Significant Agreements (continued)

All of these deliverables identified in the arrangement w separate units of accounting under ASC 605-25. Factors cons licenses, the nature of the research and development services.

The total arrangement consideration of \$77.7 million un (1) the \$25.0 million up-front payment for the license of ACE \$34.7 million, and (3) estimated payments for development a for each of the undelivered elements as the Company did not considered its development plan for the compounds, expected than half of development expenses through December 31, 20 undelivered elements under the arrangements as of the arrangements.

\$18.8 million for research and developme

\$2.9 million for the sotatercept joint deve

\$3.7 million for the ACE 536 joint develo

\$2.8 million for the manufacturing servic

After determining BESP of the undelivered elements, the arrangements. The difference between the estimated payment using BESP, for undelivered elements was \$10.2 million. This elements are delivered, using the proportional performance managements.

As noted above, the total arrangement consideration inclidentified at the outset of the ACE-536 Agreement and amend reassesses the estimated payments to be received related to the current estimates. The Company accounts for such changes a reflected in the period of change.

During 2011, the Company achieved a \$7.5 million clini in a multiple-dose clinical trial. The Company evaluated the nuncertainty to achieving the milestone upon execution of the based on the allocation of arrangement consideration determined Agreement. Based on this allocation, the Company recognize recognized as revenue as the undelivered elements are delived Company achieved a \$10.0 million clinical milestone under it clinical trial. The Company evaluated the milestone and deem

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Notes to Unaudited Interi

14. Significant Agreements (continued)

consistent with the definition of a milestone included in ASU the nine months ended September 30, 2013. The remaining deemed to be substantive and consistent with the definition or recognize payments related to the achievement of such milest determination included scientific and regulatory risks that mu to achieve each milestone, and the monetary value attributed and the nine months ended September 30, 2013 and 2012, the respectively, of the total deferred revenue as license and mile loss.

Pursuant to the terms of the agreement, Celgene and the than half of the costs for sotatercept and ACE-536 until Dece from Celgene with respect to research and development costs Company to Celgene for research and development costs incuthree months ended September 30, 2013 and 2012, and the ni cost-sharing revenue of \$3.6 million, \$0.8 million, \$9.0 million, \$0.6 million, zero and \$1.9 million, respectively, which were

Other Agreements

Shire License

In September 2010, the Company entered into a license manufacture and commercialize ActRIIB compounds in territ manufacture commercial supplies in North America for ActR initial development plan, the companies share the costs assoc Dystrophy. In September 2010, Shire made a nonrefundable, Company's revenue recognition policy prior to the adoption of will be recognized as revenue ratably over three years, which deliver research and development and manufacturing services re-assessed the duration of its deliverables under the license a adjustment was treated as a change in accounting estimate with prospectively over the new period of research and development to further pursue development of ACE-031 and Shire sent collaboration terminated effective June 30, 2013. At Decemb in the balance sheet. Upon the effectiveness of the terminatio

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Notes to Unaudited Interi

14. Significant Agreements (continued)

Shire Agreement in the second quarter of 2013, the Company upfront non-refundable payments received under the Shire Agrangements through the three months ended September 30, 2013 and 2012 recognized zero, \$1.9 million, \$24.3 million and \$5.7 million revenue in the accompanying statements of operations and companying statements of operations.

The agreement also included contingent milestone paym and commercial milestones of \$228.8 million for ActRIB co and consistent with the definition of a milestone included in a achievement of such milestones, if any, when such milestone regulatory risks that must be overcome to achieve the milestone monetary value attributed to each milestone.

Pursuant to the terms of the agreement, Shire and the Co ACE-031 and 55% of the costs for licensed compounds other costs incurred by the Company are recorded as cost-sharing r incurred by Shire are recorded as a reduction to cost-sharing months ended September 30, 2013 and 2012, the Company remillion, respectively, which includes payments to Shire of ze contra-revenue in the accompanying statements of operations

Other

The Company entered into a license agreement with a not license to certain patents developed by the institution (Primar non-sub- licensable license for Secondary Licensed Products, stock to the institution, the fair value of which was \$25,000, a also agreed to pay specified development milestone payments addition, the Company is obligated to pay milestone fees base revenue ranging from 10%-25%, as well as a royalty ranging the three months ended September 30, 2013 and 2012, and the expensed milestones and fees defined under the agreement to

The Company entered into another license agreement we license to certain patents developed by the individuals. The Caggregating up to

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Notes to Unaudited Interi

14. Significant Agreements (continued)

\$1.0 million relating to the development and commercializati single-digits on worldwide net product sales of dalantercept, patent expiration. If the Company sublicenses its patent rights based on the level of sales, profits or other levels of commercial Company did not reach any milestones defined under the agreement of the company did not reach any milestones defined under the agreement.

During 2012, the Company executed a license agreement royalty-bearing license. The Company is obligated to pay dev. Under the agreement, if the Company uses the inventors in the milestones shall change to \$0.8 million plus any waived mile well as royalties of 1.5% of net sales on any products develop the Company did not reach any milestones defined under the

15. Stock-Based Compensation

At September 30, 2013, the Company had two stock-bas

The Company's 2003 Stock Option and Restricted Stock awards, and restricted stock to employees, officers, directors, conjunction with the effectiveness of the 2013 Equity Incenti stock options or other equity-based awards may be granted un

On September 4, 2013, the Company adopted the 2013 I common stock under the 2013 Plan, which is comprised of (i) additional 1,344,116 shares. The 2013 Plan provides that the automatically increase each January 1, beginning in 2014, by the Company's common stock on the immediately preceding stock dividend or other change in the Company's capitalization 1,500,000 shares were available for issuance under the 2013 I

The Company has not granted unrestricted stock awards exercise price equal to the estimated fair value of the Comparthe date of grant. Stock options and restricted stock awards ty of the Board.

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Notes to Unaudited Interi

15. Stock-Based Compensation (continued)

Shares of the Company's common stock underlying any settlement of an award to cover the exercise price or tax with of shares of the Company's common stock, or otherwise term available for issuance under the 2013 Plan. Shares available f Company's common stock or shares of the Company's common stock or shares or shares or shares of the Company's common stock or shares or sha

Additionally, on September 4, 2013, the company adopt 275,000 shares of the Company's common stock will be avail common stock during pre-specified purchase periods at a pric at the beginning of the purchase period or 85% of the fair ma September 30, 2013, the initial purchase period under the 201

The Company recognized stock-based compensation exp three months ended September 30, 2013 and 2012 and the nir

Total compensation cost recognized for all stock-based (loss) is as follows (in thousands):

	Three Months Ended September 30,				
	2	013	2	012	
Research and development	\$	149	\$	137	\$
General and administrative		344		196	
	\$	493	\$	332	\$

The fair value of each option issued to employees was enfollowing weighted-average assumptions (in thousands):

	Three Months Ended September 30,		N Se	
	2013		2012	201
Expected volatility		%	66.9%	70
Expected term (in years)			6.0	6
Risk-free interest rate		%	0.9%]
Expected dividend yield		%	%	

Fair Value of Underlying Instrument

The Company estimates the fair value of its stock-based

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Notes to Unaudited Interi

15. Stock-Based Compensation (continued)

Expected Volatility

The Company estimated the expected volatility based or publicly-traded equity securities. The Company calculated the period of the expected term of the associated award. The comthe industry, and with historical share price information suffice volatility would decrease the fair value of the underlying inst

Expected Term

The Company estimates the expected life of its employe Bulletin (SAB) No. 107, whereby, the expected life equals the option due to its lack of sufficient historical data.

Risk-Free Interest Rate

The Company estimated the risk-free interest rate in refe with the expected term of the associated award. A decrease in instrument.

Expected Dividend Yield

The Company estimated the expected dividend yield bas expectations. The Company has not historically declared or p future, but instead expects to retain any earnings to invest in expected dividend yield of 0.0%.

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Notes to Unaudited Interi

15. Stock-Based Compensation (continued)

Stock Options

The following table summarizes the stock option activity: housands):

Outstanding at December 31, 2012

Granted

Exercised

Canceled or forfeited

Outstanding at September 30, 2013

Exercisable at September 30, 2013

Vested and expected to vest at September 30, 2013(2)

(1)

The aggregate intrinsic value is calculated as the difference common stock for the options that were in the money at S

(2)

This represents the number of vested options at Septembe on the unvested options outstanding at September 30, 201

During the nine months ended September 30, 2013, the common stock, with a weighted-average grant date fair value

During the nine months ended September 30, 2013, curr resulting in total proceeds of \$50,000.

The aggregate intrinsic value of options exercised during

As of September 30, 2013, there was \$3.3 million of unr to be recognized over a weighted-average period of 2.2 years

16. Income Taxes

The Company provides for income taxes under ASC Top is used in accounting for income taxes. Under this method, definancial reporting and tax bases of assets and liabilities, and differences are expected to reverse.

For the three and nine months end September 30, 2013 a benefit.

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Notes to Unaudited Interi

16. Income Taxes (continued)

The Company has evaluated the positive and negative ex Company's history of operating losses, the Company has conducted be realized. Accordingly, the Company has provided a full var December 31, 2012.

The Company files income tax returns in the United Stat tax returns are generally subject to tax examinations for the ta Company has tax attribute carryforwards, the tax years in wh Internal Revenue Service, state or foreign tax authorities to the

17. Long-Term Debt

On June 7, 2012, the Company entered into a loan and so Company received a loan in the aggregate principal amount of under the Loan Agreement in 42 months. The first 12 payment of principal plus interest. The Loan Agreement provided that Company did not trigger the requirements and began paying

Per annum interest is payable at the 8.5%. The Loan Agrecost over the 42 months of loan. The Loan Agreement is also payment. The Company is recording the deferred payment to interest rate is approximately 11.8%. The company is not subthe Company's personal property as of, or acquired after, the

The Loan Agreement defines events of default, including Company's business operations, properties, assets or condition accordance with the terms of the Loan Agreement, or upon the obligations, or upon the collateral under the Loan Agreement As of September 30, 2013 and December 31, 2012, there have December 31, 2012, the principal balance outstanding was \$1.

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Notes to Unaudited Interi

17. Long-Term Debt (continued)

The roll-forward of the notes payable balance during the

Total notes payable (current and long -term portions) balance Interest accrued

Repayment of long-term debt

Less current portion

Noncurrent financing obligations as of September 30, 2013

18. Related Party Transactions

Celgene Corporation (Celgene)

In connection with its entry into the collaboration agreer its Series C-1 Preferred Stock. As part of the Company's June Stock and received warrants to purchase 38,979 shares of corpurchased 1,990,446 shares of Series F Preferred Stock. In copurchased 666,667 shares of common stock. As a result of the equity as of September 30, 2013 and December 31, 2012, resigneement.

During the nine months ended September 30, 2013, the collaboration arrangement and, as of September 30, 2013, had

The Company recognized revenue from Celgene during thousands):

	Three Months Ended September 30,		I	Ni	
		2013	2012		2
License and milestone	\$	638	\$ 535	\$	
Cost sharing, net		3,632	846		
	\$	4,270	\$ 1,381	\$	

Alkermes

One of the Company's directors is also the Chairman, Pr Alkermes, Inc. (Alkermes), with which the Company entered

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Notes to Unaudited Interi

18. Related Party Transactions (continued)

As of December 31, 2012, Alkermes held 695,250 share common stock. Upon the closing of the IPO on September 24 converted into 718,655 shares of common stock. No research

Related-Party Receivable

On January 28, 2008, the Company issued a secured prochief executive officer of the Company (the CEO). The Note repayable on the earlier of January 28, 2011, or the date prior shares of its common stock. The Note Receivable was secure 2010, the term was extended until January 28, 2014, or the date covering shares of its common stock.

In November 2012, the Company further modified the to or the company files a registration statement with the SEC on Company evaluated the forgiveness provisions and determine continued to record the Note Receivable as an asset at Decem SEC on August 6, 2013 which triggered the forgiveness of th totaling \$0.2 million as compensation expense during the nine

19. Supplementary Financial Data

The following table presents certain unaudited quarterly 2013. This information has been prepared on the same basis a normal recurring adjustments) necessary to present fairly the

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Notes to Unaudited Interi

19. Supplementary Financial Data (continued)

herein. Net income (loss) per share for all periods presented be September 5, 2013.

	M	arch 31	
			(iı
2013:			
Total revenue	\$	15,012	9
Total costs and expenses		(11,876)	
Income (loss) from operations		3,136	
Net income (loss)		1,647	
Basic net income (loss) per share*	\$	(0.24)	9
Diluted net income (loss) per share*	\$	(0.24)	9
2012:			
Total revenue	\$	3,324	9
Total costs and expenses		(10,257)	
Loss from operations		(6,933)	
Net loss		(7,588)	
Basic net loss per share*	\$	(1.50)	9
Diluted net loss per share*	\$	(1.50)	9
2011:			
Total revenue	\$	6,260	
Total costs and expenses		(11,442)	
Income (loss) from operations		(5,182)	
Net income (loss)		(5,725)	
Basic net income (loss) per share*	\$	(4.88)	9
Diluted net income (loss) per share*	\$	(4.88)	9

⁽¹⁾ The amounts were computed independently for each quar

Applicable to common stockholders

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Citigroup		

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INFORMATION

Item 13. Other Expenses of Issuance and Distribution

The following table sets forth the costs and expenses, of connection with the sale of common stock being registered. A SEC, registration fee, the FINRA filing fee and NASDAQ lis

Item
SEC registration fee
FINRA filing fee
Blue Sky fees and expenses
Printing and engraving expenses
Legal fees and expenses
Accounting fees and expenses
Transfer Agent fees and expenses
Miscellaneous expenses

Total

Item 14. Indemnification of Directors and Officers

Section 145 of the General Corporation Law of the State

A corporation shall have the power to indemnify any perpending or completed action, suit or proceeding, whether civit the corporation) by reason of the fact that the person is or was request of the corporation as a director, officer, employee or against expenses (including attorneys' fees), judgments, fines connection with such action, suit or proceeding if the person opposed to the best interest of the corporation, and, with resp conduct was unlawful. The termination of any action, suit or contendere or its equivalent shall not, of itself, create a presure reasonably believed to be in or not opposed to the best interest reasonable cause to believe that his conduct was unlawful.

A corporation shall have the power to indemnify any per pending or completed action or suit by or in the right of the corporation or was a director, officer, employee or agent of the corporation employee or agent of another corporation, partnership, joint wand reasonably incurred by him in connection with the defense manner the person reasonably believed to be in or not oppose made with respect to any claim, issue or matter as to which so

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only to the extent that the Court of Chancery or the court in w the adjudication of liability but in view of all the circumstance expenses which the Court of Chancery or such other court sha

As permitted by the Delaware General Corporation Law eliminate the personal liability of our directors for monetary of exceptions. In addition, our restated certificate of incorporation under certain circumstances, including those circumstances in advance expenses to our officers and directors as incurred in

We have entered into indemnification agreements with of those provided under the Delaware General Corporation Law not intended to deny or otherwise limit third-party or derivati were entitled to indemnity or contribution under the indemnital and we would not benefit from derivative recoveries against to offset by our obligations to the director or officer under the in-

The underwriting agreement provides that the underwrit and controlling persons against certain liabilities, including li agreement filed as Exhibit 1.1 hereto.

We maintain directors' and officers' liability insurance for

Item 15. Recent Sales of Unregistered Securities

In the three years preceding the filing of this registration the Securities Act. Unless otherwise indicated, the following preferred stock effected on September 5, 2013.

Sales of Capital Stock

On September 24, 2013, we issued 666,667 shares of coreverse split of our common stock and preferred stock on Sep

On December 22, 2011, we issued 9,704,756 shares of S

On June 10, 2010 and July 9, 2010, we issued 2,660,962 consideration of \$8,355,421 and \$1,894,585 respectively.

The foregoing issuances of common stock and preferred 1933.

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Conversion of Preferred Stock

On September 24, 2013, we issued 18,516,993 shares of after giving effect to the 1-for-4 reverse split of our common

The issuance of the common stock upon conversion of the 1933

Sales of Warrants

On June 10, 2010, in connection with the issuance of ou shares of our common stock.

Sales of warrants were exempt pursuant to Rule 506 and

Grants and Exercises of Stock Options

From January 1, 2013 through September 30, 2013, we semployees at a weighted-average price of \$9.64 per share. Due of options to purchase such shares of common stock at a weighted-average price of \$9.64 per share.

In 2012, we granted options to purchase a total of 2,888, per share. In 2012, we issued 154,791 shares of common stockweighted-average price of \$1.01 per share.

In 2011, we granted options to purchase a total of 1,336, per share. In 2011, we issued 378,992 shares of common stockweighted-average price of \$0.50 per share.

In 2010, we granted options to purchase a total of 4,249, per share. In 2010, we issued 155,252 shares of common stoc weighted-average price of \$0.56 per share.

Option grants and the issuances of common stock upon of Securities Act of 1933.

Item 16. Exhibits and Financial Statement Schedules

(a)

Exhibits

Exhibit number

- 1.1 Form of Underwriting Agreement
- Restated Certificate of Incorporation (incorporate (001-36065), filed on September 24, 2013)
- 3.2 Amended and Restated By-laws (incorporated by (001-36065), filed on September 24, 2013)
- 4.1 Form of Common Stock Certificate (incorporated (333-190417), filed on September 6, 2013)

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Exhibit number

- 4.2 Form of Amended and Restated Registration Rigin Registration Statement on Form S-1 (333-190417)
- 4.3 Form of Warrant to Purchase Stock, issued to Ser exhibit 4.3 to the Company's Registration Statem
- 4.4 Form of Common Stock Warrant Certificate, issu reference to exhibit 4.4 to the Company's Registr.
- 5.1 Opinion of Ropes & Gray LLP
- 10.1 Form of Director Indemnification Agreement (inc Form S-1 (333-190417), filed on August 7, 2013)
- 10.2 Form of Amended and Restated Voting Agreeme Statement on Form S-1 (333-190417), filed on A
- 10.3 Amended and Restated Right of First Refusal and exhibit 10.3 to the Company's Registration Stater
- 10.4 Amended and Restated Investor Rights Agreement Company's Registration Statement on Form S-1 (
- 10.5 Loan and Security Agreement, dated as of June 7 Valley Bank, MidCap Financial SBIC, LP, and A Registration Statement on Form S-1 (333-190417
- 10.6+ Collaboration, License and Option Agreement be and amended August 2, 2011 (incorporated by re-(333-190417), filed on September 6, 2013)
- 10.7⁺ Amended and Restated License Agreement betwee August 6, 2010 (incorporated by reference to exh on August 7, 2013)
- 10.8+ Exclusive License Agreement between Beth Israe (incorporated by reference to exhibit 10.8 to the C 2013)
- 10.9⁺ Collaboration, License and Option Agreement be (incorporated by reference to exhibit 10.9 to the C September 6, 2013)
- 10.10 Exclusive License Agreement between Salk Insti (incorporated by reference to exhibit 10.10 to the 2013)

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Exhibit number	
10.11	Amended and Restated License Agreement betw August 11, 2010 (incorporated by reference to ex- filed on August 7, 2013)
10.12	Indenture of Lease between Massachusetts Instit reference to exhibit 10.12 to the Company's Region
10.13	Acceleron Pharma Inc. 2013 Equity Incentive Pl on Form S-8 (333-192789), filed on December 1
10.14	Form of Acceleron Pharma Inc. Cash Incentive I Statement on Form S-1/A (333-190417), filed or
10.15	Acceleron Pharma Inc. 2003 Stock Option and R Registration Statement on Form S-1 (333-19041
10.16	Promissory Note by and between Acceleron Pha 2012 (incorporated by reference to exhibit 10.16 August 7, 2013)
10.17	Form of Amended and Restated Employment Ag to exhibit 10.17 to the Company's Registration S
10.18	Form of Amended and Restated Employment Aş reference to exhibit 10.18 to the Company's Regi
10.19	Form of Amended and Restated Employment Agreference to exhibit 10.19 to the Company's Regi
10.20	Employee Stock Purchase Plan (incorporated by (333-190417), filed on September 6, 2013)
10.21	Form of Non-statutory Stock Option Agreement
10.22	Form of Incentive Stock Option Agreement under
21.1	List of Subsidiaries (previously filed)
23.1	Consent of Ernst & Young LLP
23.2	Consent of Ropes & Gray LLP (included in Exh

Portions of this exhibit (indicated by asterisks) have been submitted separately to the SEC.

24.1 Power of Attorney (previously filed)

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(b)

Financial Statement Schedules

Schedules not listed above have been omitted because the financial statements or notes thereto.

Item 17. Undertakings

The undersigned registrant hereby undertakes to provide certificates in such denominations and registered in such name

Insofar as indemnification for liabilities arising under the persons of the registrant pursuant to the foregoing provisions, and Exchange Commission such indemnification is against per a claim for indemnification against such liabilities (other than controlling person of the registrant in the successful defense operson in connection with the securities being registered, the controlling precedent, submit to a court of appropriate jurisdiction expressed in the Act and will be governed by the final adjudiction.

The undersigned Registrant hereby undertakes: (1) Thinformation omitted from the form of prospectus filed as part prospectus filed by the Registrant pursuant to Rule 424(b)(1) registration statement as of the time it was declared effective.

(2) That for the purpose of determining any liability un of prospectus shall be deemed to be a new registration statem that time shall be deemed to be the initial bona fide offering t

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Pursuant to the requirements of the Securities Act of 193 Registration Statement on Form S-1 to be signed on its behalf Commonwealth of Massachusetts, on January 21, 2014.

Signa

Pursuant to the requirements of the Securities Act, this A following persons in the capacities and on the dates indicated

Signature

/s/ JOHN L. KNOPF, PH.D.
John L. Knopf, Ph.D.
/s/ KEVIN F. MCLAUGHLIN
Kevin F. McLaughlin
*
Anthony B. Evnin, Ph.D.
*
Jean M. George
*
George Golumbeski, Ph.D.
*
Edwin M. Kania, Jr.

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	Signature
	*
	Tom Maniatis, Ph.D.
	*
	Terrance G. McGuire
	*
	Richard F. Pops
	*
	Joseph S. Zakrzewski
*By:	/s/ KEVIN F. MCLAUGHLIN
	Kevin F. McLaughlin Attorney-in-Fact

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Exhibit number

1.1

3.1

	(001-36065), filed on September 24, 2013)
3.2	Amended and Restated By-laws (incorporated by (001-36065), filed on September 24, 2013)
4.1	Form of Common Stock Certificate (incorporate Form S-1/A (333-190417), filed on September 6
4.2	Form of Amended and Restated Registration Rig Registration Statement on Form S-1 (333-19041
4.3	Form of Warrant to Purchase Stock, issued to Se exhibit 4.3 to the Company's Registration Staten
4.4	Form of Common Stock Warrant Certificate, iss reference to exhibit 4.4 to the Company's Regist
5.1	Opinion of Ropes & Gray LLP
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10.2	Form of Amended and Restated Voting Agreem Statement on Form S-1 (333-190417), filed on A
10.3	Amended and Restated Right of First Refusal an exhibit 10.3 to the Company's Registration State
10.4	Amended and Restated Investor Rights Agreemed Company's Registration Statement on Form S-1
10.5	Loan and Security Agreement, dated as of June Valley Bank, MidCap Financial SBIC, LP, and Registration Statement on Form S-1 (333-1904)
10.6+	Collaboration, License and Option Agreement b and amended August 2, 2011 (incorporated by re (333-190417), filed on September 6, 2013)
10.7+	Amended and Restated License Agreement betw August 6, 2010 (incorporated by reference to ext on August 7, 2013)

Form of Underwriting Agreement

Restated Certificate of Incorporation (incorporat

10.8⁺ Exclusive License Agreement between Beth Isra (incorporated by reference to exhibit 10.8 to the

2013)

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Exhibit number	
10.9+	Collaboration, License and Option Agreement by (incorporated by reference to exhibit 10.9 to the September 6, 2013)
10.10	Exclusive License Agreement between Salk Ins (incorporated by reference to exhibit 10.10 to the 2013)
10.11	Amended and Restated License Agreement betw August 11, 2010 (incorporated by reference to e filed on August 7, 2013)
10.12	Indenture of Lease between Massachusetts Instireference to exhibit 10.12 to the Company's Reg
10.13	Acceleron Pharma Inc. 2013 Equity Incentive P Statement on Form S-8 (333-192789), filed on I
10.14	Form of Acceleron Pharma Inc. Cash Incentive Statement on Form S-1/A (333-190417), filed o
10.15	Acceleron Pharma Inc. 2003 Stock Option and Registration Statement on Form S-1 (333-1904)
10.16	Promissory Note by and between Acceleron Pha 2012 (incorporated by reference to exhibit 10.16 August 7, 2013)
10.17	Form of Amended and Restated Employment A reference to exhibit 10.17 to the Company's Reg
10.18	Form of Amended and Restated Employment A reference to exhibit 10.18 to the Company's Reg
10.19	Form of Amended and Restated Employment A reference to exhibit 10.19 to the Company's Reg
10.20	Employee Stock Purchase Plan (incorporated by (333-190417), filed on September 6, 2013)
10.21	Form of Non-statutory Stock Option Agreement
10.22	Form of Incentive Stock Option Agreement und
21.1	List of Subsidiaries (previously filed)
23.1	Consent of Ernst & Young LLP
23.2	Consent of Ropes & Gray LLP (included in Exh

24.1 Power of Attorney (previously filed)

Portions of this exhibit (indicated by asterisks) have been submitted separately to the SEC.