Epizyme, Inc. Form S-1/A February 03, 2014 Table of Contents

As filed with the Securities and Exchange Commission on February 3, 2014

Registration No. 333-193569

# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

# Amendment No. 2

to

# FORM S-1 REGISTRATION STATEMENT

**UNDER** 

THE SECURITIES ACT OF 1933

# EPIZYME, INC.

 $(Exact\ name\ of\ registrant\ as\ specified\ in\ its\ charter)$ 

Delaware (State or other jurisdiction of incorporation or organization) 2834 (Primary Standard Industrial Classification Code Number) 400 Technology Square

26-1349956 (I.R.S. Employer Identification Number)

Cambridge, Massachusetts 02139

(617) 229-5872

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

Robert J. Gould, Ph.D.

**Chief Executive Officer** 

Epizyme, Inc.

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Approximate date of commencement of proposed sale to public: As soon as practicable after this Registration Statement is declared effective.

If any of the securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, check the following box.

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a post-effective amendment filed pursuant to Rule 462(d) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

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.

Large accelerated filer " Accelerated filer

Non-accelerated filer x (Do not check if a smaller reporting company) Smaller reporting company

#### CALCULATION OF REGISTRATION FEE

		Proposed		
		Maximum	Proposed	
	Number of Shares to be	Offering Price	Maximum Aggregate	Amount of Registration
Class of Securities to be Registered	Registered(1)	Per Share(2)	Offering Price	Fee(3)
Common Stock, par value \$0.0001 per share	4,821,580	\$29.96	\$144,454,537	\$18,606

- (1) Estimated solely for the purpose of calculating the registration fee in accordance with Rule 457(a) under the Securities Act of 1933, as amended. Includes shares that the underwriters have the option to purchase.
- (2) Estimated solely for the purpose of calculating the registration fee pursuant to Rule 457(c) under the Securities Act of 1933, as amended and based on the average of the high and low sales price of the registrant s common stock as reported on the NASDAQ Global Market on January 31, 2014.
- (3) \$18,032 previously paid on January 27, 2014. \$574 paid herewith.

The Registrant hereby amends this Registration Statement on such date or dates as may be necessary to delay its effective date until the Registrant shall file a further amendment which specifically states that this Registration Statement shall thereafter become effective in accordance with Section 8(a) of the Securities Act of 1933 or until the Registration Statement shall become effective on such date as the Commission, acting pursuant to said Section 8(a), may determine.

The information in this preliminary prospectus is not complete and may be changed. We may not sell these securities until the registration statement filed with the Securities and Exchange Commission is effective. This preliminary prospectus is not an offer to sell these securities, and it is not soliciting offers to buy these securities in any state or other jurisdiction where the offer or sale is not permitted.

#### SUBJECT TO COMPLETION, DATED FEBRUARY 3, 2014

#### PRELIMINARY PROSPECTUS

4,192,679 Shares

Epizyme, Inc.

# **Common Stock**

We are offering 3,000,000 shares of our common stock and the selling stockholders are offering 1,192,679 shares of our common stock. We will not receive any proceeds from the sale of shares by the selling stockholders.

To the extent that the underwriters sell more than 4,192,679 shares of common stock, the underwriters have an option to purchase up to 628,901 additional shares from us at the public offering price, after deducting underwriting discounts and commissions.

Our common stock is listed on The NASDAQ Global Market under the symbol EPZM. The last reported sale price of our common stock on The NASDAQ Global Market on January 31, 2014 was \$30.40 per share.

Investing in our common stock involves risks. See Risk Factors beginning on page 12.

We are an emerging growth company under applicable Securities and Exchange Commission rules and are eligible for reduced public company disclosure requirements. See Summary Implications of Being an Emerging Growth Company.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined if this prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

	Per Share	Total
Public Offering Price	\$	\$
Underwriting Discount(1)	\$	\$
Proceeds to Epizyme (before expenses)	\$	\$
Proceeds to selling stockholders	\$	\$

(1) The underwriting discount for the shares of common stock sold by Epizyme is \$ per share and the underwriting discount for the shares of common stock sold by the selling stockholders is \$ per share. We refer you to Underwriting beginning on page 149 for additional information regarding underwriting compensation.

Celgene European Investment Company LLC, or CEIC, which is affiliated with one of our collaborators and is an existing investor, has indicated an interest in purchasing up to that number of shares of our common stock in this offering at the public offering price such that CEIC s percentage ownership of our common stock following the offering would be the same as, or less than, its current percentage ownership. Assuming a public offering price of \$30.40 per share, the last sale price of our common stock on January 31, 2014, CEIC would purchase an aggregate of up to approximately 347,100 of the 4.2 million shares offered in this offering for an aggregate purchase price of approximately \$10.6 million, based on this indication of interest. However, because indications of interest are not binding agreements or commitments to purchase, CEIC may determine to purchase fewer shares than it has indicated an interest in purchasing or not to purchase any shares in this offering. In addition, the underwriters could determine to sell fewer shares to CEIC than it indicates an interest in purchasing or not to sell any shares to CEIC. The underwriters will receive the same underwriting discount on any shares purchased by CEIC as they will on any other shares sold to the public in this offering.

The underwriters expect to deliver the shares to purchasers on or about Company. , 2014 through the book-entry facilities of The Depository Trust

# **Citigroup**

**Cowen and Company** 

**Leerink Partners** 

# **JMP Securities**

# **Wedbush PacGrow Life Sciences**

**BTIG** 

, 2014

We and the selling stockholders are responsible for the information contained in this prospectus. We and the selling stockholders have not authorized anyone to provide you with different information, and we take no responsibility for any other information others may give you. If anyone provides you with different or inconsistent information, you should not rely on it. We and the selling stockholders are not, and the underwriters are not, making an offer to sell these securities in any jurisdiction where the offer or sale is not permitted. You should not assume that the information contained in this prospectus is accurate as of any date other than the date on the front of this prospectus.

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#### **SUMMARY**

The following summary highlights information contained elsewhere in this prospectus and is qualified in its entirety by the more detailed information and consolidated financial statements included elsewhere in this prospectus. This summary does not contain all of the information that may be important to you. You should read and carefully consider the following summary together with the entire prospectus, including our consolidated financial statements and the notes thereto appearing elsewhere in this prospectus and the matters discussed in the sections in this prospectus entitled Risk Factors, Selected Consolidated Financial Data and Management s Discussion and Analysis of Financial Condition and Results of Operations before deciding to invest in our common stock. Some of the statements in this prospectus constitute forward-looking statements that involve risks and uncertainties. See Special Note Regarding Forward-Looking Statements and Industry Data. Our actual results could differ materially from those anticipated in such forward-looking statements as a result of certain factors, including those discussed in the Risk Factors and other sections of this prospectus.

Except as otherwise indicated herein or as the context otherwise requires, references in this prospectus to Epizyme, the company, we, us and our refer to Epizyme, Inc., together with its consolidated subsidiary.

#### **Company Overview**

We are a clinical stage biopharmaceutical company that discovers, develops and plans to commercialize innovative personalized therapeutics for patients with genetically defined cancers. We systematically identify the genetic alterations that create cancer causing genes, called oncogenes, select patients in whom the identified genetic alteration is found and then design small molecule therapeutics to inhibit the oncogene. The clinical development plan for each of our product candidates is directed towards patients with a particular genetically defined cancer. Our approach is part of a broader trend towards personalized therapeutics based on first identifying the underlying cause of a disease afflicting specific patient populations, applying rational drug design tools to create a therapeutic to bind with a molecular target in the identified disease pathway and using a companion diagnostic to select the right patients for treatment.

We have built a proprietary product platform that we use to create small molecule inhibitors of a class of enzymes known as histone methyltransferases, or HMTs. HMTs are part of the system of gene regulation, referred to as epigenetics, that controls gene expression. In 2011, our scientists defined the 96-member HMT target class, which is referred to as the HMTome. Genetic alterations can result in changes to the activity of HMTs, making them oncogenic. When Epizyme was founded, we recognized that the HMT target class might contain many potential oncogenes and, therefore, presented the opportunity to create, develop and commercialize multiple personalized therapeutics.

We currently have two HMT inhibitors in clinical development for the treatment of patients with genetically defined cancers and believe we are the first company to conduct a clinical trial of an HMT inhibitor. We are conducting a Phase 1 clinical trial of our most advanced product candidate, EPZ-5676, an inhibitor targeting the DOT1L HMT, being developed for the treatment of acute leukemias with genetic alterations of the *MLL* gene, referred to as MLL-r and MLL-PTD. On January 6, 2014, we announced that we had earned a \$25.0 million proof-of-concept milestone in our collaboration with Celgene Corporation and Celgene International Sarl, collectively referred to as Celgene, in December 2013 by achieving objective responses in two MLL-r patients enrolled in the dose escalation stage of our Phase 1 trial. We are also conducting a Phase 1/2 clinical trial of our second most advanced product candidate, EPZ-6438, an inhibitor targeting the EZH2 HMT, being developed for the treatment of a genetically defined subtype of non-Hodgkin lymphoma and solid tumors including INI1-deficient tumors, such as synovial sarcoma and malignant rhabdoid tumors, or MRT.

In 2014, we plan to have four clinical trials ongoing that are intended to assess the proof of concept of our product candidates in five genetically defined cancer patient groups:

The expansion stage of our ongoing Phase 1 clinical trial of EPZ-5676 in MLL-r adult patients and MLL-PTD adult patients;

Our planned Phase 1b clinical trial of EPZ-5676 in MLL-r pediatric patients;

Our planned Phase 2 clinical trial of EPZ-6438 in non-Hodgkin lymphoma patients with EZH2 point mutations as part of our ongoing Phase 1/2 clinical trial of EPZ-6438; and

Our planned Phase 2 clinical trial of EPZ-6438 in synovial sarcoma patients.

The initiation of our proof-of-concept trials of EPZ-6438 is subject to our review of the data from the Phase 1 clinical trial of EPZ-6438 that we are conducting as part of our ongoing Phase 1/2 clinical trial of EPZ-6438.

In addition to our clinical programs, we also have a pipeline of HMT inhibitors in preclinical development that target our other prioritized HMTs in the HMTome. These programs are directed to genetically defined cancers, both hematological and solid tumors. As we announced on January 6, 2014, one of these preclinical HMT inhibitors achieved a development candidate milestone in December 2013, earning a \$4.0 million milestone in our collaboration with Glaxo Group Limited (an affiliate of GlaxoSmithKline), or GSK.

For many of our therapeutic product candidates, we plan to develop a companion diagnostic for the identification of patients with the genetically defined cancers that we seek to treat with our therapeutic product candidates. Because we are tailoring our personalized therapeutics for discrete patient populations with genetically defined cancers, we believe that many of our products may qualify for orphan drug designation in the United States, the European Union and other regions. We believe our personalized therapeutic product candidates offer the promise of treatment for patients with genetically defined cancers by blocking the incorrect function of oncogenic HMTs.

We were founded in November 2007 and are led by a management team with extensive experience in the pharmaceutical industry. We have entered into therapeutic collaborations with Celgene, Eisai Co., Ltd., or Eisai, and GSK, that have provided us with \$133.3 million in non-equity funding through September 30, 2013. As of September 30, 2013, we had \$139.6 million in cash and cash equivalents. We estimate that our cash, cash equivalents and accounts receivable balance as of December 31, 2013 will be between \$155.0 million and \$160.0 million. We have provided a range, rather than a specific amount, for our estimate of cash, cash equivalents and accounts receivable primarily because we have not yet completed our year-end closing procedures for the year ended December 31, 2013. It is possible that our cash, cash equivalents and accounts receivable balance will not be in this range. We will not complete our year-end closing procedures until after this offering is complete. Our independent registered accounting firm, Ernst & Young LLP, has not audited or reviewed, and does not express an opinion with respect to, this estimate.

**Role of Epigenetics and HMTs** 

Epigenetics is a regulatory system that controls gene expression. When properly read and translated, genes provide the blueprint for making the individual proteins of the body. Epigenetic control of gene expression relies on the precisely orchestrated activity of a collection of enzymes. When the function of these epigenetic enzymes is altered, gene expression is changed in ways that often leads to disease.

HMTs are a type of epigenetic enzyme that regulate gene expression by adding marks, called methyl groups, to specific locations on chromosomes, a process known as methylation. Oncogenic HMTs inappropriately mark these locations, driving multiple types of cancer, including hematological cancers and solid tumors. Out of the 96 enzymes in the HMTome, we have prioritized 20 HMTs as attractive targets for personalized therapeutics based on their oncogenic potential.

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#### **Our Strategy**

Our goal is to be a leader in the discovery, development and commercialization of personalized therapeutics for the treatment of patients with genetically defined cancers. We believe that many of our products may qualify for orphan drug designation in the United States, the European Union and other regions.

Key elements of our strategy to achieve our goal are to:

Rapidly advance the clinical development of our two lead product candidates. We have designed the Phase 1 clinical trial of EPZ-5676 and the Phase 1/2 clinical trial of EPZ-6438 to include some patients with the genetically defined cancer that we are seeking to treat. If we see evidence of a therapeutic effect in either of these trials, we plan to meet with regulatory authorities to discuss the possibility of an expedited clinical development and regulatory pathway for the applicable program. This approach is similar to the clinical development pathway that was used by the sponsor of the cancer therapeutic Zelboraf® which was included by the FDA in its 2011 report on Innovative Drug Approvals and which received marketing approval from the FDA within five years of initiating Phase 1 clinical trials. If safe and sufficiently active in the genetically defined population, we believe that our two lead product candidates may be able to rely on an expedited regulatory approval process because these product candidates have the potential to satisfy the requirements that applied to these other cancer therapeutics as well as the FDA s new breakthrough therapy designation, such as treating a life-threatening disease and providing a major advance in treatment. We cannot predict whether or when any of our product candidates will prove effective or safe in humans, if they will receive regulatory approval or if we will be able to participate in FDA expedited review and approval programs, including breakthrough and fast track designation.

*Pursue expansion indications for our two lead product candidates.* We apply our proprietary product platform to identify additional genetically defined cancers that may be treated with each of our product candidates beyond the initial indication of interest. MLL-PTD is an expansion indication for the EPZ-5676 product candidate that we identified internally. Similarly, we identified INI1-deficient tumors as potential expansion indications for EPZ-6438.

Leverage our existing collaborations. We have established therapeutic collaborations with Celgene, Eisai and GSK for our most advanced HMT programs. We believe that our collaborations contribute to our ability to rapidly advance our product candidates, build our product platform and concurrently progress a wide range of discovery and development programs. In the case of the Celgene and Eisai arrangements, we have retained commercialization or co-commercialization rights in the United States.

Establish commercialization and marketing capabilities in the United States. We have retained commercialization or co-commercialization rights in the United States for all of our programs other than the three programs in our GSK collaboration. We intend to build a focused specialty sales force and marketing capabilities in the United States to commercialize any of our oncology drugs that receive regulatory approval.

*Use our product platform to build a pipeline of proprietary HMT inhibitors.* We are using our intellectual property, expertise and knowledge to create small molecule inhibitors of the 20 HMT targets that we have prioritized. We have invented novel, potent small molecule inhibitors of 15 of these 20 prioritized HMTs. We intend to advance multiple other product candidates into clinical trials.

Develop companion diagnostics for use with our therapeutic product candidates. For many of our therapeutic product candidates, we plan to develop a companion diagnostic for the identification of patients with the genetically defined cancers that we seek to treat with our therapeutic product candidates. We intend to develop diagnostics based on currently available diagnostic technologies to the extent possible in order to minimize development and regulatory risk of our diagnostic programs.

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#### **Our Lead Product Candidates**

We invented our two lead product candidates using our proprietary product platform. We designed these product candidates to treat genetically defined cancers for which there is a significant unmet medical need.

#### EPZ-5676 DOT1L Inhibitor

We are developing EPZ-5676 as an intravenously administered small molecule inhibitor of DOT1L for the treatment of acute leukemias with alterations in the *MLL* gene, specifically rearrangements of *MLL* as a consequence of chromosomal translocation, or MLL-r, and partial tandem duplications of the *MLL* gene, or MLL-PTD. We initiated a Phase 1 clinical trial of this product candidate in September 2012. Our Phase 1 clinical trial of EPZ-5676 is an open label, multicenter trial that has two stages. The first stage is a dose escalation stage that includes some MLL-r patients. The second stage is an expansion stage that will only include MLL-r and MLL-PTD patients. We also plan to initiate a Phase 1b trial of EPZ-5676 in pediatric patients with MLL-r in 2014.

The primary objectives of the ongoing Phase 1 trial are to evaluate the safety and tolerability of EPZ-5676 and to determine its maximum tolerated dose. Secondary objectives of this trial are to:

determine the process by which EPZ-5676 is distributed and metabolized in the body, which is referred to as pharmacokinetics;

assess the biochemical and physiological effects of EPZ-5676 on the human body, which is referred to as pharmacodynamics, including methylation in peripheral blood mononuclear cells and leukemia cells; and

evaluate any early evidence of anti-tumor activity in patients with MLL-r.

The dose escalation stage of this trial was fully enrolled as of December 31, 2013. A total of five dose cohorts were enrolled at doses of 12, 24, 36, 54, and 80 mg/m²/day, with a total of 19 patients enrolled. The dose escalation stage allowed for but did not require the enrollment of patients with the targeted *MLL* genetic alterations, MLL-r and MLL-PTD. The majority of patients had a diagnosis of acute myeloid leukemia, or AML. Other diagnoses included acute lymphoblastic leukemia, or ALL, and chronic myelomonocytic leukemia, or CMML. Based on the trial results to date, EPZ-5676 has demonstrated a favorable safety and tolerability profile. Specifically, no dose-limiting toxicities, drug-related trial discontinuations, or serious adverse events considered by the clinical site investigators to be related to EPZ-5676 have been reported.

In December 2013, two patients in the fourth dose cohort of the ongoing Phase 1 trial had objective responses. These patients had demonstrated treatment-related effects and were switched from the original intravenous administration schedule, which provided for cycles of 21 days of continuous intravenous administration followed by seven days with no treatment, to an uninterrupted intravenous administration schedule. One of these patients was diagnosed with AML with an MLL-r translocation. The other patient was diagnosed with CMML with an MLL-r translocation. In addition to the two objective responses, we observed treatment effects of EPZ-5676 in some other patients with MLL-r in the trial, such as treatment-related leukocytosis, cellular maturation in blood and bone marrow and resolution of leukemia-related symptoms such as cachexia, fevers, and leukemia cutis that are consistent with anti-leukemic effects in MLL-r patients. Consistent with the genetically defined therapeutic mechanism of action of EPZ-5676, no treatment effects were seen in the non-MLL-r patients. We have not reported results for the fifth dose cohort, which is still ongoing.

Based on the initial findings from the dose escalation stage of the ongoing Phase 1 trial, we began enrolling the MLL-r/MLL-PTD expansion stage in December 2013. This stage of the trial will only enroll MLL-r and MLL-PTD patients and is designed to provide an initial assessment of efficacy, or proof of concept, in these two distinct patient populations. We plan to enroll in the trial 15 to 20 MLL-r patients and 15 to 20 MLL-PTD patients. These patients will receive EPZ-5676 with uninterrupted intravenous administration. This trial has a starting dose at 90 mg/m²/day and allows for dose escalation. We plan to provide data from the Phase 1 clinical trial, including from the dose escalation stage and the MLL-r/MLL-PTD expansion stage, in 2014.

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We retain all U.S. rights to EPZ-5676. We have granted Celgene an exclusive license to EPZ-5676 outside of the United States. We are working with Abbott Molecular Inc., or Abbott, to develop a companion diagnostic to identify patients with the MLL-r genetic alteration for this program. We may seek to collaborate with an established diagnostic company to develop a companion diagnostic to identify patients with the MLL-PTD genetic alteration for this program.

#### EPZ-6438 EZH2 Inhibitor

We are developing EPZ-6438 as an orally available small molecule inhibitor of EZH2 for the treatment of non-Hodgkin lymphoma patients who have an oncogenic point mutation in EZH2 and for the treatment of certain INI1-deficient solid tumors, such as synovial sarcoma, a soft tissue sarcoma, and malignant rhabdoid tumor, a pediatric cancer. In June 2013, Eisai and we initiated a Phase 1/2 clinical trial of EPZ-6438.

The Phase 1/2 clinical trial of EPZ-6438 is being conducted in two parts. The Phase 1 clinical trial is an open label dose escalation trial that includes some patients with an EZH2 point mutation. This trial is currently enrolling patients with advanced solid tumors or with relapsed or refractory B cell lymphoma at clinical sites in France. The primary objective of the Phase 1 clinical trial is to evaluate the safety and tolerability of EPZ-6438 and to determine its maximum tolerated dose when administered as a single agent twice daily in 28-day cycles. Secondary objectives of the Phase 1 clinical trial are to:

determine the oral bioavailability, meaning the fraction of an orally administered drug that reaches systemic circulation, of EPZ-6438;

determine the potential for drug/drug interactions with EPZ-6438;

preliminarily assess activity of EPZ-6438; and

evaluate any early evidence of anti-tumor activity in patients with an EZH2 point mutation.

Subject to enrolling patients on our planned schedule, we expect to announce top-line results from the Phase 1 clinical trial in 2014.

The current design for the Phase 2 clinical trial is focused on the evaluation of EPZ-6438 for the treatment of non-Hodgkin lymphoma patients with a point mutation in EZH2. The Phase 2 clinical trial will consist exclusively of patients with an EZH2 point mutation. The primary objective of the Phase 2 clinical trial will be to assess the objective response rate of EPZ-6438 in patients who have confirmed relapsed or refractory diffuse large B-cell lymphoma of germinal-center origin, or DLBCL, or follicular lymphoma, or FL, and an EZH2 point mutation. The secondary objective of the Phase 2 clinical trial will be to assess progression-free survival, disease control rate and the clinical benefit rate of EPZ-6438 as a single agent. The Phase 2 clinical trial will be conducted in two stages. In the first stage, all patients will be dosed at the maximum tolerated dose as determined in the Phase 1 clinical trial. Depending upon the number of responses observed in the first stage of the Phase 2 part of this clinical trial, we may initiate a second stage in which patients will be randomized in a 2:1 manner to receive either EPZ-6438 or the existing standard of care treatment.

Pending our review of the data from the ongoing Phase 1 trial, we expect to initiate the Phase 2 trial in 2014 using the dose selected in the dose escalation phase. Additionally, in 2014, we plan to expand our clinical trials of EPZ-6438 to include a Phase 2 trial of EPZ-6438 for the

treatment of synovial sarcoma. These two Phase 2 trials are intended to provide an initial assessment of efficacy, or proof of concept, in the two genetically defined cancers that we currently seek to treat with EPZ-6438.

We have a collaboration agreement with Eisai for our EZH2 program. Under this collaboration, we have a right to opt in to a 50/50 co-development, co-commercialization and profit share arrangement in the United

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States prior to the initiation of a registration trial. Subject to this right, we have granted Eisai a worldwide license to our EZH2 program, including EPZ-6438. We are working with Roche Molecular Systems, Inc., or Roche, and Eisai to develop a companion diagnostic for this program.

#### **Our Therapeutic Collaborations**

We have entered into a number of strategic collaborations for our therapeutic programs and corresponding companion diagnostics. Our therapeutic collaborations have provided us with \$133.3 million in non-equity funding through September 30, 2013. With the additional \$29.0 million in milestones earned from Celgene and GSK in December 2013, our therapeutic collaborations will have provided us with a total of \$162.3 million in non-equity funding. Our therapeutic collaborations also provide us with research funding and the potential for more than \$1.0 billion of research, development, regulatory and sales-based milestone payments, as well as royalties or profit sharing on any net product sales. We have retained commercialization or co-commercialization rights in the United States for all of our programs other than the three programs in our GSK collaboration.

We have established the following three therapeutic collaborations:

Celgene. In April 2012, we entered into a collaboration and license agreement with Celgene under which we granted Celgene an exclusive license to our DOT1L program outside of the United States, including EPZ-5676. We also granted Celgene the option to license rights outside the United States to other HMT programs, excluding HMT targets covered by our two other existing therapeutic collaborations. We are eligible to receive royalties on net product sales outside of the United States.

Under the terms of the agreement, we received a \$65.0 million upfront payment and \$25.0 million from the sale of our series C preferred stock to an affiliate of Celgene, and in December 2013, we earned a \$25.0 million clinical development milestone. In addition, we are eligible to earn up to \$135.0 million in additional clinical development and regulatory milestone payments related to DOT1L and up to \$165.0 million in option exercise fees and clinical development and regulatory milestone payments related to each additional target as to which Celgene exercises its option during an initial option period ending in July 2015. Celgene has the right to extend the option period until July 2016 by making a significant option extension payment.

*Eisai*. In April 2011, we entered into a collaboration and license agreement with Eisai under which we granted Eisai an exclusive worldwide license to our EZH2 program, including EPZ-6438, while retaining an opt-in right to co-develop, co-commercialize and share profits with Eisai as to licensed products in the United States.

Under the terms of the agreement, we have received a \$3.0 million upfront payment, \$7.0 million in preclinical research and development milestone payments, and a \$6.0 million clinical development milestone payment and recorded cash payments and accounts receivable totaling \$16.5 million for research and development services through September 30, 2013. We are eligible to receive up to \$195.0 million in additional milestone payments, comprising aggregate clinical development and regulatory milestone payments of up to \$80.0 million and sales-based milestone payments of up to \$115.0 million. We are also eligible to receive royalties on any net product sales. Eisai solely funds all research, development and commercialization costs for licensed compounds. If we exercise our opt-in right to co-develop, co-commercialize and share profits with Eisai, we are required to share ongoing U.S. development costs with Eisai, Eisai is entitled to receive a portion of past development costs as a partial reduction of future milestone payments and royalties, and the milestone payments we are eligible to receive in the future are reduced.

GSK. In January 2011, we entered into a collaboration and license agreement with GSK to discover, develop and commercialize novel small molecule HMT inhibitors directed to available targets from our product platform. Under the terms of the agreement, we granted GSK exclusive worldwide license rights to HMT inhibitors directed to three targets. Additionally, as part of the research collaboration provided for in the

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agreement, we agreed to provide research and development services related to the licensed targets pursuant to agreed upon research plans during a research term that extends to the earlier of January 8, 2015 or the achievement of development candidate declaration as to each selected target.

Under the agreement, we have received an upfront payment of \$20.0 million. Through September 30, 2013, we also received \$6.0 million of research funding and \$8.0 million of preclinical research and development milestone payments, and in December 2013, we earned a \$4.0 million preclinical research and development milestone. We are eligible to receive up to \$626.0 million in additional milestone payments, comprising aggregate preclinical research and development, clinical development and regulatory milestone payments of up to \$356.0 million and sales-based milestone payments of up to \$270.0 million. In addition, GSK is required to pay us royalties on worldwide net product sales.

#### Risks Associated with Our Business

Our business is subject to a number of risks of which you should be aware before making an investment decision. These risks are discussed more fully in the Risk Factors section of this prospectus. These risks include the following:

We have incurred significant losses since our inception. Our accumulated deficit was \$72.0 million as of September 30, 2013, representing our cumulative losses since our inception in 2007. We expect to incur losses over the next several years and may never achieve or maintain profitability.

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

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

Our research and development is focused on the creation of personalized therapeutics for patients with genetically defined cancers, which is a rapidly evolving area of science, and the approach we are taking to discover and develop drugs is novel and may never lead to marketable products. The scientific evidence to support the feasibility of developing product candidates based on these discoveries is both preliminary and limited. We believe we are the first company to conduct a clinical trial of an HMT inhibitor.

The outcome of preclinical testing and early clinical trials may not be predictive of the success of later clinical trials, and interim results of a clinical trial do not necessarily predict final results. For example, it is important to note that the objective responses observed in the dose escalation phase of our Phase 1 clinical trial of EPZ-5676 were achieved by only two of the MLL-r patients enrolled in the trial through the fourth dose cohort, were observed in an open-label setting, are not statistically significant and might not be achieved by any other patient treated with EPZ-5676. We have not yet reported results of the fifth dose cohort, which is ongoing.

Clinical drug development involves a lengthy and expensive process, with an uncertain outcome. We may incur additional costs or experience delays in completing, or ultimately be unable to complete, the development and commercialization of our product candidates.

If we are unable to successfully develop companion diagnostics for our therapeutic product candidates, or experience significant delays in doing so, we may not achieve marketing approval or realize the full commercial potential of our therapeutic product candidates.

Our existing therapeutic collaborations are important to our business, and future collaborations may also be important to us. If we are unable to maintain any of these collaborations, or if these collaborations are not successful, our business could be adversely affected.

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If we are unable to obtain and maintain patent protection for our technology and products, or if the scope of the patent protection obtained is not sufficiently broad, our competitors could develop and commercialize technology and products similar or identical to ours, and our ability to successfully commercialize our technology and products may be impaired.

#### **Our Corporate Information**

We were incorporated under the laws of the state of Delaware on November 1, 2007 under the name Epizyme, Inc. Our principal executive offices are located at 400 Technology Square, Cambridge, Massachusetts 02139 and our telephone number is (617) 229-5872. Our website address is *www.epizyme.com*. The information contained on, or that can be accessed through, our website is not a part of this prospectus. We have included our website address in this prospectus solely as an inactive textual reference.

Epizyme<sup>®</sup> and the Epizyme logo are our registered trademarks. The other trademarks, trade names and service marks appearing in this prospectus are the property of their respective owners.

#### Implications of Being an Emerging Growth Company

As a company with less than \$1.0 billion in revenue during our last fiscal year, we qualify as an emerging growth company as defined in the Jumpstart Our Business Startups Act of 2012, or the JOBS Act. For so long as we remain an emerging growth company, we are permitted and intend to rely on exemptions from specified disclosure requirements that are applicable to other public companies that are not emerging growth companies. These exemptions include:

being permitted to provide only two years of audited financial statements, in addition to any required unaudited interim financial statements, with correspondingly reduced Management s Discussion and Analysis of Financial Condition and Results of Operations disclosure;

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

not being required to comply with any requirement that may be adopted by the Public Company Accounting Oversight Board regarding mandatory audit firm rotation or a supplement to the auditor s report providing additional information about the audit and the financial statements:

reduced disclosure obligations regarding executive compensation; and

exemptions from the requirements of holding a nonbinding advisory vote on executive compensation and shareholder approval of any golden parachute payments not previously approved.

We may take advantage of these provisions through 2018 or such earlier time that we are no longer an emerging growth company. We would cease to be an emerging growth company if we have more than \$1.0 billion in annual revenues, have more than \$700.0 million in market value of our capital stock held by non-affiliates as of specified times or issue more than \$1.0 billion of non-convertible debt over a three-year period. We may choose to take advantage of some, but not all, of the available exemptions. We have taken advantage of some reduced reporting burdens

in this prospectus. Accordingly, the information contained herein may be different than the information you receive from other public companies in which you hold stock.

In addition, the JOBS Act provides that an emerging growth company can take advantage of an extended transition period for complying with new or revised accounting standards. This provision allows an emerging growth company to delay the adoption of some accounting standards until those standards would otherwise apply to private companies. We have irrevocably elected not to avail ourselves of this exemption from new or revised accounting standards and, therefore, we will be subject to the same new or revised accounting standards as other public companies that are not emerging growth companies.

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#### THE OFFERING

Common stock offered by us 3,000,000 shares

Common stock offered by the selling stockholders 1,192,679 shares

Common stock to be outstanding immediately

following this offering

31,617,947 shares

Option to purchase additional shares

The underwriters have an option to purchase up to 628,901 additional shares of common

stock from us as described in Underwriting.

Use of proceeds We currently estimate that we will use the net proceeds to us from this offering, together with our existing cash and cash equivalents:

to fund a portion of our share of the global development costs for EPZ-5676, including the costs of the expansion stage of our ongoing Phase 1 clinical trial of EPZ-5676 in MLL-r adult patients and MLL-PTD adult patients and our planned Phase 1b clinical trial of EPZ-5676 in MLL-r pediatric patients;

to fund a portion of our share of U.S. development costs for EPZ-6438, including the costs of our planned Phase 2 clinical trial of EPZ-6438 in non-Hodgkin lymphoma patients with EZH2 point mutations as part of our ongoing Phase 1/2 clinical trial of EPZ-6438 and our planned Phase 2 clinical trial of EPZ-6438 in synovial sarcoma patients, to the extent that we exercise our opt-in right to co-develop, co-commercialize and share profits in the United States for this product candidate;

to fund research and development to build our product platform and advance our pipeline of preclinical product candidates; and

for working capital and general corporate purposes.

We will not receive any of the proceeds from the sale of shares by the selling stockholders.

See the Use of Proceeds section in this prospectus for a more complete description of the intended use of proceeds from this offering.

You should read the Risk Factors section of this prospectus for a discussion of factors to

consider carefully before deciding to invest in shares of our common stock.

NASDAQ Global Market symbol EPZM

Risk Factors

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CEIC, which is affiliated with one of our collaborators and is an existing investor, has indicated an interest in purchasing up to that number of shares of our common stock in this offering at the public offering price such that CEIC s percentage ownership of our common stock following the offering would be the same as, or less than, its current percentage ownership. Assuming a public offering price of \$30.40 per share, the last sale price of our common stock on January 31, 2014, CEIC would purchase an aggregate of up to approximately 347,100 of the 4.2 million shares offered in this offering for an aggregate purchase price of approximately \$10.6 million, based on this indication of interest. However, because indications of interest are not binding agreements or commitments to purchase, CEIC may determine to purchase fewer shares than it has indicated an interest in purchasing or not to purchase any shares in this offering. In addition, the underwriters could determine to sell fewer shares to CEIC than it indicates an interest in purchasing or not to sell any shares to CEIC. The underwriters will receive the same underwriting discount on any shares purchased by CEIC as they will on any other shares sold to the public in this offering.

The number of shares of our common stock to be outstanding after this offering is based on 28,494,447 shares of our common stock outstanding as of December 31, 2013, including 5,555 shares of unvested restricted stock, and also assumes the exercise by certain selling stockholders of options to purchase 123,500 shares to be sold in this offering, and excludes:

4,605,003 shares of our common stock issuable upon the exercise of stock options outstanding as of December 31, 2013 at a weighted average exercise price of \$3.16 per share; and

1,594,304 shares of our common stock available for future issuance under our equity compensation plans as of December 31, 2013.

Unless otherwise indicated, all information in this prospectus assumes no exercise by the underwriters of their option to purchase additional shares of our common stock.

In addition, unless otherwise indicated, all information in this prospectus gives effect to a one-for-three reverse stock split of our common stock that was effected on May 13, 2013.

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#### SUMMARY CONSOLIDATED FINANCIAL DATA

The following summary consolidated financial data as of and for the years ended December 31, 2011 and 2012 has been derived from our consolidated financial statements as of and for the years ended December 31, 2011 and 2012 included elsewhere in this prospectus. The following summary consolidated statements of operations data for the nine months ended September 30, 2012 and 2013 and the balance sheet data as of September 30, 2013 have been derived from our unaudited consolidated financial statements included elsewhere in this prospectus. The summary consolidated financial data below should be read together with those consolidated financial statements as well as the Selected Consolidated Financial Data and the Management's Discussion and Analysis of Financial Condition and Results of Operations sections in this prospectus. Our historical results for any prior period are not necessarily indicative of results to be expected in any future period, and our interim period results are not necessarily indicative of results to be expected for a full year or any other interim period.

	Year Ended 2011	December 31, 2012 (in thousands, excep	Nine Months Ended 2012 pt per share data)	September 30, 2013
Consolidated Statements of Operations Data:				
Collaboration revenue	\$ 6,944	\$ 45,222	\$ 36,327	\$ 32,165
Operating expenses:				
Research and development	22,911	38,482	27,385	41,882
General and administrative	5,000	7,508	5,175	9,664
Total operating expenses	27,911	45,990	32,560	51,546
(Loss) income from operations	(20,967)	(768)	3,767	(19,381)
Other income (expense), net	10	67	69	(32)
Income tax expense		1		
Net (loss) income	\$ (20,957)	\$ (702)	\$ 3,836	\$ (19,413)
Less: accretion of redeemable convertible preferred stock to				
redemption value	45	486	326	264
Less: income allocable to participating securities			3,239	
(Loss) income allocable to common stockholders basic	(21,002)	(1,188)	271	(19,677)
Undistributed income re-allocated to common stockholders			147	
(Loss) income allocable to common stockholders diluted	\$ (21,002)	\$ (1,188)	\$ 418	\$ (19,677)
(Loss) earnings per share allocable to common stockholders:				
Basic	\$ (14.65)	\$ (0.72)	\$ 0.17	\$ (1.49)
Diluted	\$ (14.65)	\$ (0.72)	\$ 0.16	\$ (1.49)
Weighted average shares outstanding:				
Basic	1,434	1,645	1,637	13,212
Diluted	1,434	1,645	2,641	13,212

	Septem	<b>September 30, 2013</b>	
	Actual		Adjusted(1) thousands)
Consolidated Balance Sheet Data:			
Cash and cash equivalents	\$ 139,575	\$	225,068
Total assets	147,350		232,843

Deferred revenue	50,706	50,706
Total stockholders equity	87,283	172,776

(1) The as adjusted consolidated balance sheet data give effect to our issuance of 3,000,000 shares of common stock being offered by us at an assumed public offering price of \$30.40 per share, which was the last reported sale price of our common stock on January 31, 2014, after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us, and the exercise by certain selling stockholders of options to purchase 123,500 shares to be sold in this offering.

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#### RISK FACTORS

Investing in our common stock involves a high degree of risk. You should carefully consider the risks and uncertainties described below together with all of the other information contained in this prospectus, including our financial statements and the related notes appearing at the end of this prospectus and Management s Discussion and Analysis of Financial Condition and Results of Operations, before deciding to invest in our common stock. If any of the following risks actually occur, our business, prospects, operating results and financial condition could suffer materially. In such event, the trading price of our common stock could decline and you might lose all or part of your investment.

Risks Related to Our Financial Position and Need For Additional Capital

We have incurred significant losses since our inception. We expect to incur losses over the next several years and may never achieve or maintain profitability.

Since inception, we have incurred significant operating losses. Our net loss was \$21.0 million for the year ended December 31, 2011, \$0.7 million for the year ended December 31, 2012 and \$19.4 million for the nine months ended September 30, 2013. As of September 30, 2013, we had an accumulated deficit of \$72.0 million. To date, we have financed our operations primarily through our collaborations, our initial public offering and private placements of our preferred stock. All of our revenue to date has been collaboration revenue. We have devoted substantially all of our financial resources and efforts to research and development, including preclinical studies and, beginning in 2012, clinical trials. We are still in the early stages of development of our product candidates, and we have not completed development of any drugs. We expect to continue to incur significant expenses and operating losses over the next several years. Our net losses may fluctuate significantly from quarter to quarter and year to year. We anticipate that our expenses will increase substantially over the next several years as we:

continue our Phase 1 clinical trial of EPZ-5676, our most advanced product candidate, for treatment of patients with mixed lineage leukemia, or MLL-r, a genetically defined subtype of the two most common forms of acute leukemia, and patients with adult acute myeloid leukemia with a partial tandem duplication in the *MLL* gene, or MLL-PTD;

continue, together with Eisai, the Phase 1/2 clinical trial of EPZ-6438, our second most advanced product candidate, for treatment of patients with a genetically defined subtype of non-Hodgkin lymphoma, and seek to treat additional indications, including INI1-deficient solid tumors, such as synovial sarcoma and malignant rhabdoid tumors;

initiate our planned Phase 1b clinical trial of EPZ-5676 in pediatric patients with MLL-r and our planned Phase 2 clinical trial of EPZ-6438 in patients with synovial sarcoma;

continue the research and development of our other product candidates;

seek to discover and develop additional product candidates;

seek regulatory approvals for any product candidates that successfully complete clinical trials;

ultimately establish a sales, marketing and distribution infrastructure and scale up external manufacturing capabilities to commercialize any products for which we may obtain regulatory approval;

maintain, expand and protect our intellectual property portfolio;

hire additional clinical, quality control and scientific personnel; and

add operational, financial and management information systems and personnel, including personnel to support our product development and planned future commercialization efforts.

To become and remain profitable, we must succeed in developing, and eventually commercializing, products that generate significant revenue. The ability to achieve this success will require us to be effective in a range of challenging activities, including completing preclinical testing and clinical trials of our product

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candidates, discovering additional product candidates, obtaining regulatory approval for these product candidates and manufacturing, marketing and selling any products for which we may obtain regulatory approval. We are only in the preliminary stages of most of these activities. We may never succeed in these activities and, even if we do, may never generate revenues that are significant enough to achieve profitability.

Because of the numerous risks and uncertainties associated with pharmaceutical product development, we are unable to accurately predict the timing or amount of increased expenses or when, or if, we will be able to achieve profitability. If we are required by the United States Food and Drug Administration, or FDA, the European Medicines Agency, or EMA, or other regulatory authorities to perform studies in addition to those currently expected, or if there are any delays in completing our clinical trials or the development of any of our product candidates, our expenses could increase.

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

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

We expect our expenses to increase in connection with our ongoing activities, particularly as we continue the Phase 1 clinical trial of EPZ-5676 in MLL-r and MLL-PTD adult patients and the Phase 1/2 clinical trial of EPZ-6438, subject to our opt-in right, initiate our planned Phase 1b clinical trial of EPZ-5676 in pediatric patients with MLL-r, initiate our planned Phase 2 clinical trial of EPZ-6438 in patients with synovial sarcoma, subject to our opt-in right, and continue research and development and initiate additional clinical trials of, and seek regulatory approval for, these product candidates and other product candidates. In addition, if we obtain regulatory approval for any of our product candidates, we expect to incur significant commercialization expenses related to product manufacturing, marketing, sales and distribution. Accordingly, we will need to obtain substantial additional funding in connection with our continuing operations. If we are unable to raise capital when needed or on acceptable terms, we could be forced to delay, reduce or eliminate our research and development programs or any future commercialization efforts.

Based on our research and development plans and our timing expectations related to the progress of our programs, we expect that the net proceeds to us from this offering, together with our existing cash and cash equivalents as of September 30, 2013, accounts receivable for milestones earned in December 2013 and research funding that we expect to receive under our existing collaborations, will enable us to fund our operating expenses and capital expenditure requirements until at least mid-2016, without giving effect to any potential option exercise fees or milestone payments we may receive under our collaboration agreements. Prior to such time, we expect to complete four ongoing and planned proof-of-concept trials in five genetically defined cancer patient groups: MLL-r adult patients, MLL-PTD adult patients, MLL-r pediatric patients, non-Hodgkin lymphoma patients with EZH2 point mutations and synovial sarcoma patients. We have based these expectations on assumptions that may prove to be wrong, and we could use our capital resources sooner than we expect. Our future capital requirements will depend on many factors, including:

our collaboration agreements remaining in effect and our ability to obtain research funding and achieve milestones under these agreements;

the progress and results of our ongoing Phase 1 clinical trial of EPZ-5676 and Phase 1/2 clinical trial of EPZ-6438 and our planned expansion trials of EPZ-5676 and EPZ-6438;

the number and development requirements of additional indications for EPZ-5676 and EPZ-6438 and other product candidates that we may pursue, including the scope, progress, results and costs of preclinical development, laboratory testing and clinical trials for such product candidates;

the costs, timing and outcome of regulatory review of our product candidates;

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the costs and timing of future commercialization activities, including product manufacturing, marketing, sales and distribution for any of our product candidates for which we receive marketing approval;

the revenue, if any, received from commercial sales of our product candidates for which we receive marketing approval;

the costs and timing of preparing, filing and prosecuting patent applications, maintaining and enforcing our intellectual property rights and defending any intellectual property-related claims; and

the extent to which we acquire or in-license other products and technologies.

Identifying potential product candidates and conducting preclinical testing and clinical trials is a time-consuming, expensive and uncertain process that takes years to complete, and we may never generate the necessary data or results required to obtain regulatory approval and achieve product sales. In addition, our product candidates, if approved, may not achieve commercial success. Our commercial revenues, if any, will be derived from sales of products that we do not expect to be commercially available for many years, if at all. Accordingly, we will need to continue to rely on additional financing to achieve our business objectives. Adequate additional financing may not be available to us on acceptable terms, or at all. In addition, we may seek additional capital due to favorable market conditions or strategic considerations, even if we believe we have sufficient funds for our current or future operating plans.

Raising additional capital may cause dilution to our stockholders, including purchasers of common stock in this offering, restrict our operations or require us to relinquish rights to our technologies or product candidates.

Until such time, if ever, as we can generate substantial product revenues, we expect to finance our cash needs through a combination of equity offerings, debt financings and license and development agreements with collaboration partners. We do not have any committed external source of funds other than research funding under our existing collaborations. To the extent that we raise additional capital through the sale of equity or convertible debt securities, your ownership interest will be diluted and the terms of these securities may include liquidation or other preferences that adversely affect your rights as a common stockholder. Debt financing and preferred equity financing, if available, may involve agreements that include covenants limiting or restricting our ability to take specific actions, such as incurring additional debt, making capital expenditures or declaring dividends.

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

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

We commenced active operations in early 2008, and our operations to date have been limited to organizing and staffing our company, business planning, raising capital, developing our technology, identifying potential product candidates, undertaking preclinical studies and, beginning in 2012, conducting clinical trials. All but two of our product candidates are still in preclinical development. We are conducting a Phase 1 clinical trial of EPZ-5676, our most advanced product candidate, and a Phase 1/2 clinical trial of EPZ-6438, our second most advanced product candidate, but have not completed enrollment in either of these trials. We have not yet demonstrated our ability to successfully complete any

clinical trials, obtain regulatory approvals, manufacture a commercial scale product, or arrange for a third party to do so on our behalf, or conduct sales and marketing activities necessary for successful product commercialization. Consequently, any predictions you make about our future success or viability may not be as accurate as they could be if we had a longer operating history.

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

We expect our financial condition and operating results to continue to fluctuate significantly from quarter-to-quarter and year-to-year due to a variety of factors, many of which are beyond our control. Accordingly, you should not rely upon the results of any quarterly or annual periods as indications of future operating performance.

Risks Related to the Discovery and Development of Our Product Candidates

Our research and development is focused on the creation of personalized therapeutics for patients with genetically defined cancers, which is a rapidly evolving area of science, and the approach we are taking to discover and develop drugs is novel and may never lead to marketable products.

The discovery of personalized drug therapeutics for patients with genetically defined cancers is an emerging field, and the scientific discoveries that form the basis for our efforts to discover and develop product candidates are relatively new. The scientific evidence to support the feasibility of developing product candidates based on these discoveries is both preliminary and limited. Although epigenetic regulation of gene expression plays an essential role in biological function, very few drugs premised on epigenetics have been discovered. Moreover, those drugs based on an epigenetic mechanism that have received marketing approval are in a different target class than HMTs, where our research and development is focused. Although preclinical studies suggest that genetic alterations in HMTs cause them to drive particular human cancers, to date no company has translated these biological observations into systematic drug discovery that has yielded a drug that has received marketing approval. We believe that we are the first company to conduct a clinical trial of an HMT inhibitor. Therefore, we do not know if our approach of inhibiting HMTs to treat patients with genetically defined cancers will be successful.

We are early in our development efforts and have only two product candidates in clinical trials. All of our other product candidates are still in preclinical development. If we are unable to commercialize our product candidates or experience significant delays in doing so, our business will be materially harmed.

We are very early in our development efforts and have only two product candidates in clinical trials. All of our other product candidates are still in preclinical development. We have invested substantially all of our efforts and financial resources in the identification and preclinical development of HMT inhibitors. Our ability to generate product revenues, which we do not expect will occur for many years, if ever, will depend heavily on the successful development and eventual commercialization of our product candidates. The success of our product candidates will depend on several factors, including the following:

successful completion of preclinical studies and clinical trials;

receipt of marketing approvals from applicable regulatory authorities;

obtaining and maintaining patent and trade secret protection and regulatory exclusivity for our product candidates;

making arrangements with third party manufacturers for, or establishing, commercial manufacturing capabilities;

launching commercial sales of the products, if and when approved, whether alone or in collaboration with others;

acceptance of the products, if and when approved, by patients, the medical community and third party payors;

effectively competing with other therapies;

obtaining and maintaining healthcare coverage and adequate reimbursement;

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protecting our rights in our intellectual property portfolio; and

maintaining a continued acceptable safety profile of the products following approval.

If we do not achieve one or more of these factors in a timely manner or at all, we could experience significant delays or an inability to successfully commercialize our product candidates, which would materially harm our business.

We may not be successful in our efforts to use and expand our product platform to build a pipeline of product candidates.

A key element of our strategy is to use and expand our product platform to build a pipeline of small molecule inhibitors of HMT targets and progress these product candidates through clinical development for the treatment of a variety of different types of cancer. Although our research and development efforts to date have resulted in a pipeline of programs directed at specific HMT targets, we may not be able to develop product candidates that are safe and effective HMT inhibitors. Even if we are successful in continuing to build our pipeline, the potential product candidates that we identify may not be suitable for clinical development, including as a result of being shown to have harmful side effects or other characteristics that indicate that they are unlikely to be products that will receive marketing approval and achieve market acceptance. If we do not successfully develop and commercialize product candidates based upon our technological approach, we will not be able to obtain product revenues in future periods, which likely would result in significant harm to our financial position and adversely affect our stock price.

Clinical drug development involves a lengthy and expensive process, with an uncertain outcome. We may incur additional costs or experience delays in completing, or ultimately be unable to complete, the development and commercialization of our product candidates.

Two of our product candidates are in early clinical development, and our remaining product candidates are in preclinical development. The risk of failure for each of our product candidates is high. It is impossible to predict when or if any of our product candidates will prove effective or safe in humans or will receive regulatory approval. Before obtaining marketing approval from regulatory authorities for the sale of any product candidate, we must complete preclinical development and then conduct extensive clinical trials to demonstrate the safety and efficacy of our product candidates in humans. Clinical testing is expensive, difficult to design and implement, can take many years to complete and is uncertain as to outcome. A failure of one or more clinical trials can occur at any stage of testing. The outcome of preclinical testing and early clinical trials may not be predictive of the success of later clinical trials, and interim results of a clinical trial do not necessarily predict final results. For example, it is important to note that the objective responses observed in the fourth dose cohort of the dose escalation stage of our Phase 1 clinical trial of EPZ-5676 were observed in only two of the MLL-r patients enrolled in the trial through the fourth cohort, were achieved in an open-label setting, are not statistically significant, and might not be achieved by any other patient treated with EPZ-5676. Moreover, preclinical and clinical data are often susceptible to varying interpretations and analyses, and many companies that have believed their product candidates performed satisfactorily in preclinical studies and clinical trials have nonetheless failed to obtain marketing approval of their products.

We may experience numerous unforeseen events during, or as a result of, clinical trials that could delay or prevent our ability to receive marketing approval or commercialize our product candidates, including:

regulators or institutional review boards may not authorize us or our investigators to commence a clinical trial or conduct a clinical trial at a prospective trial site;

we may experience delays in reaching, or fail to reach, agreement on acceptable clinical trial contracts or clinical trial protocols with prospective trial sites;

clinical trials of our product candidates may produce negative or inconclusive results, and we may decide, or regulators may require us, to conduct additional clinical trials or abandon product development programs;

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the number of patients required for clinical trials of our product candidates may be larger than we anticipate, enrollment in these clinical trials may be slower than we anticipate or participants may drop out of these clinical trials at a higher rate than we anticipate;

our third party contractors may fail to comply with regulatory requirements or meet their contractual obligations to us in a timely manner, or at all;

we may have to suspend or terminate clinical trials of our product candidates for various reasons, including a finding that the participants are being exposed to unacceptable health risks;

regulators or institutional review boards may require that we or our investigators suspend or terminate clinical research for various reasons, including noncompliance with regulatory requirements or a finding that the participants are being exposed to unacceptable health risks:

the cost of clinical trials of our product candidates may be greater than we anticipate;

the supply or quality of our product candidates or other materials necessary to conduct clinical trials of our product candidates may be insufficient or inadequate; and

our product candidates may have undesirable side effects or other unexpected characteristics, causing us or our investigators, regulators or institutional review boards to suspend or terminate the trials.

If we are required to conduct additional clinical trials or other testing of our product candidates beyond those that we currently contemplate, if we are unable to successfully complete clinical trials of our product candidates or other testing, if the results of these trials or tests are not positive or are only modestly positive or if there are safety concerns, we may:

be delayed in obtaining marketing approval for our product candidates;

not obtain marketing approval at all;

obtain approval for indications or patient populations that are not as broad as intended or desired;

obtain approval with labeling that includes significant use or distribution restrictions or safety warnings;

be subject to additional post-marketing testing requirements; or

have the product removed from the market after obtaining marketing approval.

Our product development costs will also increase if we experience delays in clinical testing or in obtaining marketing approvals. We do not know whether any of our preclinical studies or clinical trials will begin as planned, will need to be restructured or will be completed on schedule, or at all. Significant preclinical or clinical trial delays also could shorten any periods during which we may have the exclusive right to

commercialize our product candidates or allow our competitors to bring products to market before we do and impair our ability to successfully commercialize our product candidates and may harm our business and results of operations.

If we experience delays or difficulties in the enrollment of patients in clinical trials, our receipt of necessary regulatory approvals could be delayed or prevented.

We may not be able to initiate or continue clinical trials for our product candidates if we are unable to locate and enroll a sufficient number of eligible patients to participate in these trials as required by the FDA or similar regulatory authorities outside of the United States. In particular, because we are focused on patients with genetically defined cancers, our ability to enroll eligible patients may be limited or may result in slower enrollment than we anticipate. For example, enrollment in our Phase 1 clinical trial of EPZ-5676 was slower than we expected because of delays in establishing trial sites. In addition, some of our competitors have ongoing clinical trials for product candidates that treat the broader patient populations within which our product candidates are being developed for the treatment of a subset of identifiable patients with genetically defined cancers, and patients who would otherwise be eligible for our clinical trials may instead enroll in clinical trials of our competitors product candidates.

Patient enrollment is affected by other factors including:
the severity of the disease under investigation;
the eligibility criteria for the trial in question;
the perceived risks and benefits of the product candidate under trial;
the efforts to facilitate timely enrollment in clinical trials;
the patient referral practices of physicians;
the ability to monitor patients adequately during and after treatment; and
the proximity and availability of clinical trial sites for prospective patients.
Our inability to enroll a sufficient number of patients for our clinical trials would result in significant delays and could require us to abandon on or more clinical trials altogether. Enrollment delays in our clinical trials may result in increased development costs for our product candidates, which would cause the value of our company to decline and limit our ability to obtain additional financing.
Following our general product development strategy, we have designed our ongoing clinical trials of EPZ-5676 and EPZ-6438, and expect to design future trials, to include some patients with the applicable genetic alteration that causes the disease with a view to assessing possible early evidence of potential therapeutic effect. If we are unable to include patients with the applicable genetic alteration, this could compromise our ability to seek participation in FDA expedited review and approval programs, including breakthrough therapy and fast track designation, or otherwise to seek to accelerate clinical development and regulatory timelines.

If serious adverse or unacceptable side effects are identified during the development of our product candidates, we may need to abandon or limit our development of some of our product candidates.

If our product candidates are associated with undesirable side effects in clinical trials or have characteristics that are unexpected, we may need to abandon their development or limit development to more narrow uses or subpopulations in which the undesirable side effects or other characteristics are less prevalent, less severe or more acceptable from a risk-benefit perspective. In pharmaceutical development, many compounds that initially show promise in early stage testing for treating cancer are later found to cause side effects that prevent further development of the compound.

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

Because we have limited financial and managerial resources, we focus on research programs and product candidates that we identify for specific indications. As a result, we may forego or delay pursuit of opportunities with other product candidates or for other indications that later prove to have greater commercial potential. Our resource allocation decisions may cause us to fail to capitalize on viable commercial products or profitable market opportunities. Our spending on current and future research and development programs and product candidates for specific indications may not yield any commercially viable products. If we do not accurately evaluate the commercial potential or target market for a particular product candidate, we may relinquish valuable rights to that product candidate through collaboration, licensing or other royalty arrangements in cases in which it would have been more advantageous for us to retain sole development and commercialization rights to such product candidate.

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If we are unable to successfully develop companion diagnostics for our therapeutic product candidates, or experience significant delays in doing so, we may not achieve marketing approval or realize the full commercial potential of our therapeutic product candidates.

We plan to develop companion diagnostics for our therapeutic product candidates. We expect that, at least in some cases, the FDA and similar regulatory authorities outside of the United States may require the development and regulatory approval of a companion diagnostic as a condition to approving our therapeutic product candidates. We do not have experience or capabilities in developing or commercializing diagnostics and plan to rely in large part on third parties to perform these functions. For example, in December 2012, Eisai and we entered into an agreement with Roche to develop and commercialize a companion diagnostic for use with EPZ-6438 for non-Hodgkin lymphoma patients with EZH2 point mutations. In February 2013, we entered into a similar agreement with Abbott to develop and commercialize a companion diagnostic for use with EPZ-5676 in MLL-r patients. We may seek to enter into a similar agreement with a third party to create a companion diagnostic for use with EPZ-5676 in MLL-PTD patients. However, the MLL-PTD genetic alteration is not currently identified as part of standard diagnostic care, and as a result, it may be more difficult to enter into an agreement with a diagnostic company to create a companion diagnostic for this potential indication or to obtain comparable diagnostic results from those methods being used by sites enrolling MLL-PTD patients in our ongoing Phase 1 trial of EPZ-5676.

We generally expect to enter into similar agreements for our other therapeutic product candidates and possible expansion indications for EPZ-5676 and EPZ-6438. Companion diagnostics are subject to regulation by the FDA and similar regulatory authorities outside of the United States as medical devices and require separate regulatory approval prior to commercialization.

If we, or any third parties that we engage to assist us, are unable to successfully develop companion diagnostics for our therapeutic product candidates, or experience delays in doing so:

the development of our therapeutic product candidates may be adversely affected if we are unable to appropriately select patients for enrollment in our clinical trials;

our therapeutic product candidates may not receive marketing approval if their safe and effective use depends on a companion diagnostic; and

we may not realize the full commercial potential of any therapeutic product candidates that receive marketing approval if, among other reasons, we are unable to appropriately identify patients with the specific genetic alterations targeted by our therapeutic product candidates.

If any of these events were to occur, our business would be harmed, possibly materially.

### Risks Related to the Commercialization of Our Product Candidates

Even if any of our product candidates receives marketing approval, it may fail to achieve the degree of market acceptance by physicians, patients, third party payors and others in the medical community necessary for commercial success.

If any of our product candidates receives marketing approval, it may nonetheless fail to gain sufficient market acceptance by physicians, patients, third party payors and others in the medical community. For example, current cancer treatments like chemotherapy and radiation therapy are well established in the medical community, and doctors may continue to rely on these treatments. If our product candidates do not achieve an adequate level of acceptance, we may not generate significant product revenues and we may not become profitable. The degree of market acceptance of our product candidates, if approved for commercial sale, will depend on a number of factors, including:

the efficacy and potential advantages compared to alternative treatments;

our ability to offer our products for sale at competitive prices;

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the	convenience s	and ea	se of	administration	compared to	alternative treatments:	
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the willingness of the patient population to try new therapies and of physicians to prescribe these therapies;

the strength of marketing and distribution support;

the availability of third party coverage and adequate reimbursement;

the prevalence and severity of any side effects; and

any restrictions on the use of our products together with other medications.

If we are unable to establish sales, marketing and distribution capabilities, we may not be successful in commercializing our product candidates if and when they are approved.

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

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

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

our inability to recruit, train and retain adequate numbers of effective sales and marketing personnel;

the inability of sales personnel to obtain access to physicians or persuade adequate numbers of physicians to prescribe any future products;

the lack of complementary products to be offered by sales personnel, which may put us at a competitive disadvantage relative to companies with more extensive product lines; and

unforeseen costs and expenses associated with creating an independent sales and marketing organization.

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

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

The development and commercialization of new drug products is highly competitive. We face competition with respect to our current product candidates, and will likely face competition with respect to any product candidates that we may seek to develop or commercialize in the future, from major pharmaceutical companies, specialty pharmaceutical companies and biotechnology companies worldwide. There are a number of large

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pharmaceutical and biotechnology companies that currently market and sell products or are pursuing the development of products for the treatment of the disease indications for which we are developing our product candidates. Some of these competitive products and therapies are based on scientific approaches that are the same as or similar to our approach, and others are based on entirely different approaches. Potential competitors also include academic institutions, government agencies and other public and private research organizations that conduct research, seek patent protection and establish collaborative arrangements for research, development, manufacturing and commercialization.

Specifically, there are a large number of companies developing or marketing treatments for cancer, including many major pharmaceutical and biotechnology companies. In addition, many companies are developing cancer therapeutics that work by targeting epigenetic mechanisms other than HMTs, and some companies, including Celgene and Eisai, are marketing such treatments. There are also a number of companies that we believe are developing new epigenetic treatments for cancer that target HMTs, including GSK, Novartis AG, Pfizer, Inc. and Genentech, Inc.

Our commercial opportunity could be reduced or eliminated if our competitors develop and commercialize products that are safer, more effective, have fewer or less severe side effects, are more convenient or are less expensive than any products that we may develop. Our competitors also may obtain FDA or other regulatory approval for their products more rapidly than we may obtain approval for ours, which could result in our competitors establishing a strong market position before we are able to enter the market. In addition, our ability to compete may be affected in many cases by insurers or other third party payors seeking to encourage the use of generic products. Generic products are currently on the market for the indications that we are pursuing, and additional products are expected to become available on a generic basis over the coming years. If our product candidates achieve marketing approval, we expect that they will be priced at a significant premium over competitive generic products.

Many of the companies against which we are competing or against which we may compete in the future have significantly greater financial resources and expertise in research and development, manufacturing, preclinical testing, conducting clinical trials, obtaining regulatory approvals and marketing approved products than we do. Mergers and acquisitions in the pharmaceutical and biotechnology industries may result in even more resources being concentrated among a smaller number of our competitors. Smaller and other early stage companies may also prove to be significant competitors, particularly through collaborative arrangements with large and established companies. These third parties compete with us in recruiting and retaining qualified scientific and management personnel, establishing clinical trial sites and patient registration for clinical trials, as well as in acquiring technologies complementary to, or necessary for, our programs.

Even if we are able to commercialize any product candidates, the products may become subject to unfavorable pricing regulations, third party reimbursement practices or healthcare reform initiatives, which could harm our business.

The regulations that govern marketing approvals, pricing, coverage and reimbursement for new drug products vary widely from country to country. Current and future legislation may significantly change the approval requirements in ways that could involve additional costs and cause delays in obtaining approvals. Some countries require approval of the sale price of a drug before it can be marketed. In many countries, the pricing review period begins after marketing or product licensing approval is granted. In some foreign markets, prescription pharmaceutical pricing remains subject to continuing governmental control even after initial approval is granted. As a result, we might obtain marketing approval for a product in a particular country, but then be subject to price regulations that delay our commercial launch of the product, possibly for lengthy time periods, and negatively impact the revenues we are able to generate from the sale of the product in that country. Adverse pricing limitations may hinder our ability to recoup our investment in one or more product candidates, even if our product candidates obtain marketing approval.

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Our ability to commercialize any product candidates successfully also will depend in part on the extent to which coverage and adequate reimbursement for these products and related treatments will be available from government health administration authorities, private health insurers and other organizations. Government authorities and third party payors, such as private health insurers and health maintenance organizations, decide which medications they will pay for and establish reimbursement levels. A primary trend in the U.S. healthcare industry and elsewhere is cost containment. Government authorities and third party payors have attempted to control costs by limiting coverage and the amount of reimbursement for particular medications. Increasingly, third party payors are requiring that drug companies provide them with predetermined discounts from list prices and are challenging the prices charged for medical products. Coverage and reimbursement may not be available for any product that we commercialize and, even if these are available, the level of reimbursement may not be satisfactory. Reimbursement may affect the demand for, or the price of, any product candidate for which we obtain marketing approval. Obtaining and maintaining adequate reimbursement for our products may be difficult. We may be required to conduct expensive pharmacoeconomic studies to justify coverage and reimbursement or the level of reimbursement relative to other therapies. If coverage and adequate reimbursement are not available or reimbursement is available only to limited levels, we may not be able to successfully commercialize any product candidate for which we obtain marketing approval.

There may be significant delays in obtaining reimbursement for newly approved drugs, and coverage may be more limited than the purposes for which the drug is approved by the FDA or similar regulatory authorities outside of the United States. Moreover, eligibility for reimbursement does not imply that a drug will be paid for in all cases or at a rate that covers our costs, including research, development, manufacture, sale and distribution. Interim reimbursement levels for new drugs, if applicable, may also not be sufficient to cover our costs and may not be made permanent. Reimbursement rates may vary according to the use of the drug and the clinical setting in which it is used, may be based on reimbursement levels already set for lower cost drugs and may be incorporated into existing payments for other services. Net prices for drugs may be reduced by mandatory discounts or rebates required by government healthcare programs or private payors and by any future relaxation of laws that presently restrict imports of drugs from countries where they may be sold at lower prices than in the United States. Third party payors often rely upon Medicare coverage policy and payment limitations in setting their own reimbursement policies. Our inability to promptly obtain coverage and adequate reimbursement rates from both government-funded and private payors for any approved products that we develop could have a material adverse effect on our operating results, our ability to raise capital needed to commercialize products and our overall financial condition.

Product liability lawsuits against us could cause us to incur substantial liabilities and to limit commercialization of any products that we may develop.

We face an inherent risk of product liability exposure related to the testing of our product candidates in human clinical trials and will face an even greater risk if we commercially sell any products that we may develop. If we cannot successfully defend ourselves against claims that our product candidates or products caused injuries, we will incur substantial liabilities. Regardless of merit or eventual outcome, liability claims may result in:

decreased demand for any product candidates or products that we may develop; injury to our reputation and significant negative media attention; withdrawal of clinical trial participants;

significant costs to defend any related litigation;

substantial monetary awards to trial participants or patients;

loss of revenue;

reduced resources of our management to pursue our business strategy; and

the inability to commercialize any products that we may develop.

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We currently hold \$5.0 million in product liability insurance coverage in the aggregate, with a per incident limit of \$5.0 million, which may not be adequate to cover all liabilities that we may incur. We may need to increase our insurance coverage as we expand our clinical trials or if we commence commercialization of our product candidates. Insurance coverage is increasingly expensive. We may not be able to maintain insurance coverage at a reasonable cost or in an amount adequate to satisfy any liability that may arise.

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

Our existing therapeutic collaborations are important to our business, and future collaborations may also be important to us. If we are unable to maintain any of these collaborations, or if these collaborations are not successful, our business could be adversely affected.

We have limited capabilities for drug development and do not yet have any capability for sales, marketing or distribution. Accordingly, we have entered into therapeutic collaborations with other companies that we believe can provide such capabilities, including our collaboration and license agreements with Celgene, Eisai and GSK. These collaborations also have provided us with important funding for our development programs and product platform and we expect to receive additional funding under these collaborations in the future. Our existing therapeutic collaborations, and any future collaborations we enter into, may pose a number of risks, including the following:

collaborators have significant discretion in determining the efforts and resources that they will apply to these collaborations;

collaborators may not perform their obligations as expected;

collaborators may not pursue development and commercialization of any product candidates that achieve regulatory approval or may elect not to continue or renew development or commercialization programs based on clinical trial results, changes in the collaborators strategic focus or available funding, or external factors, such as an acquisition, that may divert resources or create competing priorities;

collaborators may delay clinical trials, provide insufficient funding for a clinical trial program, stop a clinical trial or abandon a product candidate, repeat or conduct new clinical trials or require a new formulation of a product candidate for clinical testing;

collaborators could independently develop, or develop with third parties, products that compete directly or indirectly with our products and product candidates if the collaborators believe that the competitive products are more likely to be successfully developed or can be commercialized under terms that are more economically attractive than ours;

product candidates discovered in collaboration with us may be viewed by our collaborators as competitive with their own product candidates or products, which may cause collaborators to cease to devote resources to the commercialization of our product candidates;

a collaborator may fail to comply with applicable regulatory requirements regarding the development, manufacture, distribution or marketing of a product candidate or product;

a collaborator with marketing and distribution rights to one or more of our product candidates that achieve regulatory approval may not commit sufficient resources to the marketing and distribution of such product or products;

disagreements with collaborators, including disagreements over proprietary rights, contract interpretation or the preferred course of development, might cause delays or terminations of the research, development or commercialization of product candidates, might lead to additional responsibilities for us with respect to product candidates, or might result in litigation or arbitration, any of which would be time-consuming and expensive;

collaborators may not properly maintain or defend our intellectual property rights or may use our proprietary information in such a way as to invite litigation that could jeopardize or invalidate our intellectual property or proprietary information or expose us to potential litigation;

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collaborators may infringe the intellectual property rights of third parties, which may expose us to litigation and potential liability; and

collaborations may be terminated for the convenience of the collaborator, and, if terminated, we could be required to raise additional capital to pursue further development or commercialization of the applicable product candidates.

If our therapeutic collaborations do not result in the successful development and commercialization of products or if one of our collaborators terminates its agreement with us, we may not receive any future research funding or milestone or royalty payments under the collaboration. If we do not receive the funding we expect under these agreements, our development of our product platform and product candidates could be delayed and we may need additional resources to develop product candidates and our product platform. All of the risks relating to product development, regulatory approval and commercialization described in this prospectus also apply to the activities of our therapeutic collaborators.

Each of our existing three therapeutic collaborations contains a restriction on our engaging in activities that are the subject of the collaboration with third parties for specified periods of time. In addition, under our collaboration agreement with Celgene, during the option period specified in the agreement, which could extend to July 2016, Celgene has the right to exercise its option to acquire a license to additional targets other than DOT1L until the effectiveness of an investigational new drug application, or IND, for an HMT inhibitor directed to such additional target. This option effectively covers all HMT targets that are not currently subject to our Eisai and GSK collaborations. As a result, our ability to enter into collaboration agreements for additional HMT targets is significantly limited until the end of the option period under the Celgene agreement and may continue to be limited after that time depending on how many targets Celgene elects to license, if any. These restrictions may have the effect of preventing us from undertaking development and other efforts that may appear to be attractive to us.

Additionally, subject to its contractual obligations to us, if a collaborator of ours is involved in a business combination, the collaborator might deemphasize or terminate the development or commercialization of any product candidate licensed to it by us. If one of our collaborators terminates its agreement with us, we may find it more difficult to attract new collaborators and our perception in the business and financial communities could be adversely affected.

For some of our product candidates or for some HMT targets, we may in the future determine to collaborate with pharmaceutical and biotechnology companies for development and potential commercialization of therapeutic products. We face significant competition in seeking appropriate collaborators. Our ability to reach a definitive agreement for a collaboration will depend, among other things, upon our assessment of the collaborator's resources and expertise, the terms and conditions of the proposed collaboration and the proposed collaborator's evaluation of a number of factors. If we are unable to reach agreements with suitable collaborators on a timely basis, on acceptable terms, or at all, we may have to curtail the development of a product candidate, reduce or delay its development program or one or more of our other development programs, delay its potential commercialization or reduce the scope of any sales or marketing activities, or increase our expenditures and undertake development or commercialization activities at our own expense. If we elect to fund and undertake development or commercialization activities on our own, we may need to obtain additional expertise and additional capital, which may not be available to us on acceptable terms or at all. If we fail to enter into collaborations and do not have sufficient funds or expertise to undertake the necessary development and commercialization activities, we may not be able to further develop our product candidates or bring them to market or continue to develop our product platform and our business may be materially and adversely affected.

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Failure of our third party collaborators to successfully commercialize companion diagnostics developed for use with our therapeutic product candidates could harm our ability to commercialize these product candidates.

We do not plan to develop companion diagnostics internally and, as a result, we are dependent on the efforts of our third party collaborators to successfully commercialize these companion diagnostics. Our collaborators:

may not perform their obligations as expected;

may encounter production difficulties that could constrain the supply of the companion diagnostics;

may have difficulties gaining acceptance of the use of the companion diagnostics in the clinical community;

may not pursue commercialization of any therapeutic product candidates that achieve regulatory approval;

may elect not to continue or renew commercialization programs based on changes in the collaborators strategic focus or available funding, or external factors such as an acquisition, that divert resources or create competing priorities;

may not commit sufficient resources to the marketing and distribution of such product or products; and

may terminate their relationship with us.

If companion diagnostics for use with our therapeutic product candidates fail to gain market acceptance, our ability to derive revenues from sales of our therapeutic product candidates could be harmed. If our collaborators fail to commercialize these companion diagnostics, we may not be able to enter into arrangements with another diagnostic company to obtain supplies of an alternative diagnostic test for use in connection with our therapeutic product candidates or do so on commercially reasonable terms, which could adversely affect and delay the development or commercialization of our therapeutic product candidates.

We rely, and expect to continue to rely, on third parties to conduct our clinical trials, and those third parties may not perform satisfactorily, including failing to meet deadlines for the completion of such trials.

We currently rely on third party clinical research organizations, or CROs, to conduct our ongoing Phase 1 clinical trial of EPZ-5676 and our ongoing Phase 1/2 clinical trial of EPZ-6438 and do not plan to independently conduct clinical trials of our other product candidates. We expect to continue to rely on third parties, such as CROs, clinical data management organizations, medical institutions and clinical investigators, to conduct our clinical trials. These agreements might terminate for a variety of reasons, including a failure to perform by the third parties. If we need to enter into alternative arrangements, our product development activities might be delayed.

Our reliance on these third parties for research and development activities will reduce our control over these activities but will not relieve us of our responsibilities. For example, we will remain responsible for ensuring that each of our clinical trials is conducted in accordance with the

general investigational plan and protocols for the trial. Moreover, the FDA requires us to comply with standards, commonly referred to as good clinical practices, or GCPs, for conducting, recording and reporting the results of clinical trials to assure that data and reported results are credible and accurate and that the rights, integrity and confidentiality of trial participants are protected. We also are required to register ongoing clinical trials and post the results of completed clinical trials on a government-sponsored database, ClinicalTrials.gov, within specified timeframes. Failure to do so can result in fines, adverse publicity and civil and criminal sanctions.

Furthermore, these third parties may also have relationships with other entities, some of which may be our competitors. If these third parties do not successfully carry out their contractual duties, meet expected deadlines or conduct our clinical trials in accordance with regulatory requirements or our stated protocols, we will not be able to obtain, or may be delayed in obtaining, marketing approvals for our product candidates and will not be able to, or may be delayed in our efforts to, successfully commercialize our product candidates.

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We also expect to rely on other third parties to store and distribute drug supplies for our clinical trials. Any performance failure on the part of our distributors could delay clinical development or marketing approval of our product candidates or commercialization of our products, producing additional losses and depriving us of potential product revenue.

We contract with third parties for the manufacture of our product candidates for preclinical and clinical testing and expect to continue to do so for commercialization. This reliance on third parties increases the risk that we will not have sufficient quantities of our product candidates or products or such quantities at an acceptable cost or quality, which could delay, prevent or impair our development or commercialization efforts.

We do not have any manufacturing facilities or personnel. We rely, and expect to continue to rely, on third parties for the manufacture of our product candidates for preclinical and clinical testing, as well as for commercial manufacture if any of our product candidates receive marketing approval. This reliance on third parties increases the risk that we will not have sufficient quantities of our product candidates or products or such quantities at an acceptable cost or quality, which could delay, prevent or impair our development or commercialization efforts.

We also expect to rely on third party manufacturers or third party collaborators for the manufacture of commercial supply of any other product candidates for which our collaborators or we obtain marketing approval.

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

reliance on the third party for regulatory compliance and quality assurance;

the possible breach of the manufacturing agreement by the third party

the possible misappropriation of our proprietary information, including our trade secrets and know-how; and

the possible termination or nonrenewal of the agreement by the third party at a time that is costly or inconvenient for us.

Third party manufacturers may not be able to comply with current good manufacturing practices, or cGMP, regulations or similar regulatory requirements outside of the United States. Our failure, or the failure of our third party manufacturers, to comply with applicable regulations could result in sanctions being imposed on us, including clinical holds, fines, injunctions, civil penalties, delays, suspension or withdrawal of approvals, license revocation, seizures or recalls of product candidates or products, operating restrictions and criminal prosecutions, any of which could significantly and adversely affect supplies of our products.

Our product candidates and any products that we may develop may compete with other product candidates and products for access to manufacturing facilities. There are a limited number of manufacturers that operate under cGMP regulations and that might be capable of manufacturing for us.

Any performance failure on the part of our existing or future manufacturers could delay clinical development or marketing approval. We do not currently have arrangements in place for redundant supply or a second source for bulk drug substance. If our current contract manufacturers cannot perform as agreed, we may be required to replace such manufacturers. Although we believe that there are several potential alternative manufacturers who could manufacture our product candidates, we may incur added costs and delays in identifying and qualifying any such replacement.

Our current and anticipated future dependence upon others for the manufacture of our product candidates or products may adversely affect our future profit margins and our ability to commercialize any products that receive marketing approval on a timely and competitive basis.

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

If we are unable to obtain and maintain patent protection for our technology and products or if the scope of the patent protection obtained is not sufficiently broad, our competitors could develop and commercialize technology and products similar or identical to ours, and our ability to successfully commercialize our technology and products may be impaired.

Our success depends in large part on our ability to obtain and maintain patent protection in the United States and other countries with respect to our proprietary technology and products. We seek to protect our proprietary position by filing patent applications in the United States and abroad related to our novel technologies and product candidates.

The patent prosecution process is expensive and time-consuming, and we may not be able to file and prosecute all necessary or desirable patent applications at a reasonable cost or in a timely manner. It is also possible that we will fail to identify patentable aspects of our research and development output before it is too late to obtain patent protection. Moreover, in some circumstances, we do not have the right to control the preparation, filing and prosecution of patent applications, or to maintain the patents, covering technology that we license from third parties. Therefore, these patents and applications may not be prosecuted and enforced in a manner consistent with the best interests of our business.

The patent position of biotechnology and pharmaceutical companies generally is highly uncertain, involves complex legal and factual questions and has in recent years been the subject of much litigation. In addition, the laws of foreign countries may not protect our rights to the same extent as the laws of the United States. For example, European patent law restricts the patentability of methods of treatment of the human body more than United States law does. Publications of discoveries in the scientific literature often lag behind the actual discoveries, and patent applications in the United States and other jurisdictions are typically not published until 18 months after filing, or in some cases at all. Therefore, we cannot know with certainty whether we were the first to make the inventions claimed in our owned or licensed patents or pending patent applications, or that we were the first to file for patent protection of such inventions. As a result, the issuance, scope, validity, enforceability and commercial value of our patent rights are highly uncertain. Our pending and future patent applications may not result in patents being issued which protect our technology or products, in whole or in part, or which effectively prevent others from commercializing competitive technologies and products. Changes in either the patent laws or interpretation of the patent laws in the United States and other countries may diminish the value of our patents or narrow the scope of our patent protection.

Recent patent reform legislation could increase the uncertainties and costs surrounding the prosecution of our patent applications and the enforcement or defense of our issued patents. On September 16, 2011, the Leahy-Smith America Invents Act, or the Leahy-Smith Act, was signed into law. The Leahy-Smith Act includes a number of significant changes to United States patent law. These changes include provisions that affect the way patent applications are prosecuted and may also affect patent litigation. The United States Patent Office recently developed new regulations and procedures to govern administration of the Leahy-Smith Act, and many of the substantive changes to patent law associated with the Leahy-Smith Act, and in particular, the first to file provisions, only became effective on March 16, 2013. Accordingly, it is not clear what, if any, impact the Leahy-Smith Act will have on the operation of our business. However, the Leahy-Smith Act and its implementation could increase the uncertainties and costs surrounding the prosecution of our patent applications and the enforcement or defense of our issued patents, all of which could have a material adverse effect on our business and financial condition.

Moreover, we may be subject to a third party preissuance submission of prior art to the U.S. Patent and Trademark Office, or become involved in opposition, derivation, reexamination, *inter partes* review, post-grant review or interference proceedings challenging our patent rights or the patent rights of others. An adverse determination in any such submission, proceeding or litigation could reduce the scope of, or invalidate, our patent rights, allow third parties to commercialize our technology or products and compete directly with us,

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without payment to us, or result in our inability to manufacture or commercialize products without infringing third party patent rights. In addition, if the breadth or strength of protection provided by our patents and patent applications is threatened, it could dissuade companies from collaborating with us to license, develop or commercialize current or future product candidates.

Even if our owned and licensed patent applications issue as patents, they may not issue in a form that will provide us with any meaningful protection, prevent competitors from competing with us or otherwise provide us with any competitive advantage. Our competitors may be able to circumvent our owned or licensed patents by developing similar or alternative technologies or products in a non-infringing manner.

The issuance of a patent is not conclusive as to its inventorship, scope, validity or enforceability, and our owned and licensed patents may be challenged in the courts or patent offices in the United States and abroad. Such challenges may result in loss of exclusivity or freedom to operate or in patent claims being narrowed, invalidated or held unenforceable, in whole or in part, which could limit our ability to stop others from using or commercializing similar or identical technology and products, or limit the duration of the patent protection of our technology and products. Given the amount of time required for the development, testing and regulatory review of new product candidates, patents protecting such candidates might expire before or shortly after such candidates are commercialized. As a result, our owned and licensed patent portfolio may not provide us with sufficient rights to exclude others from commercializing products similar or identical to ours.

We may become involved in lawsuits to protect or enforce our patents or other intellectual property, which could be expensive, time consuming and unsuccessful.

Competitors may infringe our issued patents or other intellectual property. To counter infringement or unauthorized use, we may be required to file infringement claims, which can be expensive and time consuming. Any claims we assert against perceived infringers could provoke these parties to assert counterclaims against us alleging that we infringe their patents. In addition, in a patent infringement proceeding, a court may decide that a patent of ours is invalid or unenforceable, in whole or in part, construe the patent s claims narrowly or refuse to stop the other party from using the technology at issue on the grounds that our patents do not cover the technology in question. An adverse result in any litigation proceeding could put one or more of our patents at risk of being invalidated or interpreted narrowly.

We may need to license certain intellectual property from third parties, and such licenses may not be available or may not be available on commercially reasonable terms.

A third party may hold intellectual property, including patent rights, that are important or necessary to the development of our products. It may be necessary for us to use the patented or proprietary technology of third parties to commercialize our products, in which case we may be required to obtain a license from these third parties on commercially reasonable terms, or our business could be harmed, possibly materially.

Third parties may initiate legal proceedings alleging that we are infringing their intellectual property rights, the outcome of which would be uncertain and could have a material adverse effect on the success of our business.

Our commercial success depends upon our ability, and the ability of our collaborators, to develop, manufacture, market and sell our product candidates and use our proprietary technologies without infringing the proprietary rights of third parties. There is considerable intellectual property litigation in the biotechnology and pharmaceutical industries. We may become party to, or threatened with, future adversarial proceedings or litigation regarding intellectual property rights with respect to our products and technology, including interference or derivation

proceedings before the U.S. Patent and Trademark Office. Third parties may assert infringement claims against us based on existing patents or patents that may be granted in the future.

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If we are found to infringe a third party s intellectual property rights, we could be required to obtain a license from such third party to continue developing and marketing our products and technology. However, we may not be able to obtain any required license on commercially reasonable terms or at all. Even if we were able to obtain a license, it could be non-exclusive, thereby giving our competitors access to the same technologies licensed to us. We could be forced, including by court order, to cease commercializing the infringing technology or product. In addition, we could be found liable for monetary damages, including treble damages and attorneys fees if we are found to have willfully infringed a patent. A finding of infringement could prevent us from commercializing our product candidates or force us to cease some of our business operations, which could materially harm our business. Claims that we have misappropriated the confidential information or trade secrets of third parties could have a similar negative impact on our business.

If we fail to comply with our obligations in our intellectual property licenses and funding arrangements with third parties, we could lose rights that are important to our business.

We are party to a license agreement and a research agreement that impose, and we may enter into additional licensing and funding arrangements with third parties that may impose, diligence, development and commercialization timelines, milestone payment, royalty, insurance and other obligations on us. Under our existing licensing and funding agreements, we are obligated to pay royalties on net product sales of product candidates or related technologies to the extent they are covered by the agreement. We also had diligence and development obligations under those agreements that we have satisfied. If we fail to comply with our obligations under current or future license and funding agreements, our counterparties may have the right to terminate these agreements, in which event we might not be able to develop, manufacture or market any product that is covered by these agreements or may face other penalties under the agreements. Such an occurrence could materially adversely affect the value of the product candidate being developed under any such agreement. Termination of these agreements or reduction or elimination of our rights under these agreements may result in our having to negotiate new or reinstated agreements with less favorable terms, or cause us to lose our rights under these agreements, including our rights to important intellectual property or technology.

We may be subject to claims by third parties asserting that our employees or we have misappropriated their intellectual property, or claiming ownership of what we regard as our own intellectual property.

Many of our employees were previously employed at universities or other biotechnology or pharmaceutical companies, including our competitors or potential competitors. Although we try to ensure that our employees do not use the proprietary information or know-how of others in their work for us, we may be subject to claims that these employees or we have used or disclosed intellectual property, including trade secrets or other proprietary information, of any such employee s former employer. Litigation may be necessary to defend against these claims.

In addition, while it is our policy to require our employees and contractors who may be involved in the development of intellectual property to execute agreements assigning such intellectual property to us, we may be unsuccessful in executing such an agreement with each party who in fact develops intellectual property that we regard as our own. Our and their assignment agreements may not be self-executing or may be breached, and we may be forced to bring claims against third parties, or defend claims they may bring against us, to determine the ownership of what we regard as our intellectual property.

If we fail in prosecuting or defending any such claims, in addition to paying monetary damages, we may lose valuable intellectual property rights or personnel. Even if we are successful in prosecuting or defending against such claims, litigation could result in substantial costs and be a distraction to management.

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

Even if resolved in our favor, litigation or other legal proceedings relating to intellectual property claims may cause us to incur significant expenses, and could distract our technical and management personnel from their normal responsibilities. In addition, there could be public announcements of the results of hearings, motions or other interim proceedings or developments and if securities analysts or investors perceive these results to be negative, it could have a substantial adverse effect on the price of our common stock. Such litigation or proceedings could substantially increase our operating losses and reduce the resources available for development activities or any future sales, marketing or distribution activities. We may not have sufficient financial or other resources to conduct such litigation or proceedings adequately. Some of our competitors may be able to sustain the costs of such litigation or proceedings more effectively than we can because of their greater financial resources. Uncertainties resulting from the initiation and continuation of patent litigation or other proceedings could compromise our ability to compete in the marketplace.

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

In addition to seeking patents for some of our technology and product candidates, we also rely on trade secrets, including unpatented know-how, technology and other proprietary information, to maintain our competitive position. We seek to protect these trade secrets, in part, by entering into non-disclosure and confidentiality agreements with parties who have access to them, such as our employees, corporate collaborators, outside scientific collaborators, contract manufacturers, consultants, advisors and other third parties. We also enter into confidentiality and invention or patent assignment agreements with our employees and consultants. Despite these efforts, any of these parties may breach the agreements and disclose our proprietary information, including our trade secrets, and we may not be able to obtain adequate remedies for such breaches. Enforcing a claim that a party illegally disclosed or misappropriated a trade secret is difficult, expensive and time-consuming, and the outcome is unpredictable. In addition, some courts inside and outside of the United States are less willing or unwilling to protect trade secrets. If any of our trade secrets were to be lawfully obtained or independently developed by a competitor, we would have no right to prevent them, or those to whom they communicate it, from using that technology or information to compete with us. If any of our trade secrets were to be disclosed to or independently developed by a competitor, our competitive position would be harmed.

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

If we are not able to obtain, or if there are delays in obtaining, required regulatory approvals, we will not be able to commercialize our product candidates, and our ability to generate revenue will be materially impaired.

Our product candidates and the activities associated with their development and commercialization, including their design, testing, manufacture, safety, efficacy, recordkeeping, labeling, storage, approval, advertising, promotion, sale and distribution, are subject to comprehensive regulation by the FDA and other regulatory agencies in the United States and by the EMA and similar regulatory authorities outside of the United States. Failure to obtain marketing approval for a product candidate will prevent us from commercializing the product candidate. We have not received approval to market any of our product candidates from regulatory authorities in any jurisdiction. We have only limited experience in filing and supporting the applications necessary to gain marketing approvals and expect to rely on third party CROs to assist us in this process. Securing marketing approval requires the submission of extensive preclinical and clinical data and supporting information to regulatory authorities for each therapeutic indication to establish the product candidate s safety and efficacy. Securing marketing approval also requires the submission of information about the product manufacturing process to, and inspection of manufacturing facilities by, the regulatory authorities. Our product candidates may not be effective, may be only moderately effective or may prove to have undesirable or unintended side effects, toxicities or other characteristics that may preclude our obtaining marketing approval or prevent or limit commercial use. New cancer drugs frequently are indicated only for patient populations that have

not responded to an existing therapy or have relapsed. If any of our product candidates receives marketing approval, the accompanying label may limit the approved use of our drug in this way, which could limit sales of the product.

The process of obtaining marketing approvals, both in the United States and abroad, is expensive, may take many years if additional clinical trials are required, if approval is obtained at all, and can vary substantially based upon a variety of factors, including the type, complexity and novelty of the product candidates involved. Changes in marketing approval policies during the development period, changes in or the enactment of additional statutes or regulations, or changes in regulatory review for each submitted product application, may cause delays in the approval or rejection of an application. Regulatory authorities have substantial discretion in the approval process and may refuse to accept any application or may decide that our data is insufficient for approval and require additional preclinical, clinical or other studies. In addition, varying interpretations of the data obtained from preclinical and clinical testing could delay, limit or prevent marketing approval of a product candidate. Any marketing approval we ultimately obtain may be limited or subject to restrictions or post-approval commitments that render the approved product not commercially viable.

If we experience delays in obtaining approval or if we fail to obtain approval of our product candidates, the commercial prospects for our product candidates may be harmed and our ability to generate revenues will be materially impaired.

We may not be able to obtain orphan drug exclusivity for our product candidates.

Regulatory authorities in some jurisdictions, including the United States and Europe, may designate drugs for relatively small patient populations as orphan drugs. Under the Orphan Drug Act, the FDA may designate a product as an orphan drug if it is a drug intended to treat a rare disease or condition, which is generally defined as a patient population of fewer than 200,000 individuals annually in the United States.

Generally, if a product with an orphan drug designation subsequently receives the first marketing approval for the indication for which it has such designation, the product is entitled to a period of marketing exclusivity, which precludes the EMA or the FDA from approving another marketing application for the same drug for that time period. The applicable period is seven years in the United States and ten years in Europe. The European exclusivity period can be reduced to six years if a drug no longer meets the criteria for orphan drug designation or if the drug is sufficiently profitable so that market exclusivity is no longer justified. Orphan drug exclusivity may be lost if the FDA or EMA determines that the request for designation was materially defective or if the manufacturer is unable to assure sufficient quantity of the drug to meet the needs of patients with the rare disease or condition.

Even if we obtain orphan drug exclusivity for a product, that exclusivity may not effectively protect the product from competition because different drugs can be approved for the same condition. Even after an orphan drug is approved, the FDA can subsequently approve the same drug for the same condition if the FDA concludes that the later drug is clinically superior in that it is shown to be safer, more effective or makes a major contribution to patient care.

A fast track designation by the FDA may not actually lead to a faster development or regulatory review or approval process.

We intend to seek fast track designation for some of our product candidates. If a drug is intended for the treatment of a serious or life-threatening condition and the drug demonstrates the potential to address unmet medical needs for this condition, the drug sponsor may apply for FDA fast track designation. The FDA has broad discretion whether or not to grant this designation, so even if we believe a particular product candidate is

eligible for this designation, we cannot assure you that the FDA would decide to grant it. Even if we do receive fast track designation, we may not experience a faster development process, review or approval compared to conventional

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FDA procedures. The FDA may withdraw fast track designation if it believes that the designation is no longer supported by data from our clinical development program.

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

We may seek a breakthrough therapy designation for some of our product candidates. A breakthrough therapy is defined as a drug that is intended, alone or in combination with one or more other drugs, to treat a serious or life-threatening disease or condition, and preliminary clinical evidence indicates that the drug may demonstrate substantial improvement over existing therapies on one or more clinically significant endpoints, such as substantial treatment effects observed early in clinical development. For drugs and biologics that have been designated as breakthrough therapies, interaction and communication between the FDA and the sponsor of the trial can help to identify the most efficient path for clinical development while minimizing the number of patients placed in ineffective control regimens. Drugs designated as breakthrough therapies by the FDA are also eligible for accelerated approval.

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

Failure to obtain marketing approval in international jurisdictions would prevent our product candidates from being marketed abroad.

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

Any product candidate for which we obtain marketing approval could be subject to post-marketing restrictions or withdrawal from the market and we may be subject to penalties if we fail to comply with regulatory requirements or if we experience unanticipated problems with our products, when and if any of them are approved.

Any product candidate for which we obtain marketing approval, along with the manufacturing processes, post-approval clinical data, labeling, advertising and promotional activities for such product, will be subject to continual requirements of and review by the FDA and other regulatory authorities. These requirements include submissions of safety and other post-marketing information and reports, registration and listing requirements, cGMP requirements relating to manufacturing, quality control, quality assurance and corresponding maintenance

of records and documents, requirements regarding the distribution of samples to physicians and recordkeeping. Even if marketing approval of a product candidate is granted, the approval may be subject to limitations on the indicated uses for which the product may be marketed or to the conditions of approval, including the requirement to implement a risk evaluation and mitigation strategy. New cancer drugs frequently are indicated only for patient populations that have not responded to an existing therapy or have relapsed. If any of our product candidates receives marketing approval, the accompanying label may limit the approved use of our drug in this way, which could limit sales of the product.

The FDA may also impose requirements for costly post-marketing studies or clinical trials and surveillance to monitor the safety or efficacy of the product. The FDA closely regulates the post-approval marketing and promotion of drugs to ensure drugs are marketed only for the approved indications and in accordance with the provisions of the approved labeling. The FDA imposes stringent restrictions on manufacturers communications regarding off-label use, and if we do not market our products for their approved indications, we may be subject to enforcement action for off-label marketing. Violations of the Federal Food, Drug, and Cosmetic Act relating to the promotion of prescription drugs may lead to investigations alleging violations of federal and state health care fraud and abuse laws, as well as state consumer protection laws.

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

restrictions on such products, manufacturers or manufacturing processes;
restrictions on the labeling or marketing of a product;
restrictions on product distribution or use;
requirements to conduct post-marketing studies or clinical trials;
warning letters;
withdrawal of the products from the market;
refusal to approve pending applications or supplements to approved applications that we submit;
recall of products;
fines, restitution or disgorgement of profits or revenues;
suspension or withdrawal of marketing approvals;
refusal to permit the import or export of our products;

product seizure; or

injunctions or the imposition of civil or criminal penalties.

Non-compliance with European Union requirements regarding safety monitoring or pharmacovigilance, and with requirements related to the development of products for the pediatric population, can also result in significant financial penalties. Similarly, failure to comply with the European Union s requirements regarding the protection of personal information can also lead to significant penalties and sanctions.

Our relationships with customers and third party payors will be subject to applicable anti-kickback, fraud and abuse and other healthcare laws and regulations, which, in the event of a violation, could expose us to criminal sanctions, civil penalties, contractual damages, reputational harm and diminished profits and future earnings.

Healthcare providers, physicians and third party payors will play a primary role in the recommendation and prescription of any product candidates for which we obtain marketing approval. Our future arrangements with

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third party payors and customers may expose us to broadly applicable fraud and abuse and other healthcare laws and regulations that may constrain the business or financial arrangements and relationships through which we market, sell and distribute any products for which we obtain marketing approval. Restrictions under applicable federal and state healthcare laws and regulations, include the following:

the federal Anti-Kickback Statute prohibits, among other things, persons from knowingly and willfully soliciting, offering, receiving or providing remuneration, directly or indirectly, in cash or in kind, to induce or reward, or in return for, either the referral of an individual for, or the purchase, order or recommendation of, any good or service, for which payment may be made under a federal healthcare program such as Medicare and Medicaid;

the federal False Claims Act imposes criminal and civil penalties, including civil whistleblower or *qui tam* actions, against individuals or entities for knowingly presenting, or causing to be presented, to the federal government, claims for payment that are false or fraudulent or making a false statement to avoid, decrease or conceal an obligation to pay money to the federal government;

the federal Health Insurance Portability and Accountability Act of 1996, or HIPAA, imposes criminal and civil liability for executing a scheme to defraud any healthcare benefit program or making false statements relating to healthcare matters;

HIPAA, as amended by the Health Information Technology for Economic and Clinical Health Act and its implementing regulations, also imposes obligations, including mandatory contractual terms, with respect to safeguarding the privacy, security and transmission of individually identifiable health information;

federal law requires applicable manufacturers of covered drugs to report payments and other transfers of value to physicians and teaching hospitals, with data collection beginning in August 2013; and

analogous state and foreign laws and regulations, such as state anti-kickback and false claims laws, may apply to sales or marketing arrangements and claims involving healthcare items or services reimbursed by non-governmental third party payors, including private insurers.

Some state laws require pharmaceutical companies to comply with the pharmaceutical industry s voluntary compliance guidelines and the relevant compliance guidance promulgated by the federal government and may require drug manufacturers to report information related to payments and other transfers of value to physicians and other healthcare providers or marketing expenditures. State and foreign laws also govern the privacy and security of health information in some circumstances, many of which differ from each other in significant ways and often are not preempted by HIPAA, thus complicating compliance efforts.

Efforts to ensure that our business arrangements with third parties will comply with applicable healthcare laws and regulations will involve substantial costs. It is possible that governmental authorities will conclude that our business practices may not comply with current or future statutes, regulations or case law involving applicable fraud and abuse or other healthcare laws and regulations. If our operations are found to be in violation of any of these laws or any other governmental regulations that may apply to us, we may be subject to significant civil, criminal and administrative penalties, damages, fines, imprisonment, exclusion of products from government funded healthcare programs, such as Medicare and Medicaid, and the curtailment or restructuring of our operations. If any of the physicians or other healthcare providers or entities with whom we expect to do business is found to be not in compliance with applicable laws, they may be subject to criminal, civil or administrative sanctions, including exclusions from government funded healthcare programs.

Recently enacted and future legislation may increase the difficulty and cost for us to obtain marketing approval of and commercialize our product candidates and affect the prices we may obtain.

In the United States and some foreign jurisdictions, there have been a number of legislative and regulatory changes and proposed changes regarding the healthcare system that could prevent or delay marketing approval of our product candidates, restrict or regulate post-approval activities and affect our ability to profitably sell any product candidates for which we obtain marketing approval.

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

More recently, in March 2010, President Obama signed into law the Patient Protection and Affordable Care Act, as amended by the Health Care and Education Affordability Reconciliation Act, or collectively, the PPACA, a sweeping law intended to broaden access to health insurance, reduce or constrain the growth of healthcare spending, enhance remedies against fraud and abuse, add new transparency requirements for the healthcare and health insurance industries, impose new taxes and fees on the health industry and impose additional health policy reforms.

Among the provisions of the PPACA of importance to our potential product candidates are the following:

an annual, nondeductible fee on any entity that manufactures or imports specified branded prescription drugs and biologic agents;

an increase in the statutory minimum rebates a manufacturer must pay under the Medicaid Drug Rebate Program;

expansion of healthcare fraud and abuse laws, including the False Claims Act and the Anti-Kickback Statute, new government investigative powers, and enhanced penalties for noncompliance;

a new Medicare Part D coverage gap discount program, in which manufacturers must agree to offer 50% point-of-sale discounts off negotiated prices;

extension of manufacturers Medicaid rebate liability;

expansion of eligibility criteria for Medicaid programs;

expansion of the entities eligible for discounts under the Public Health Service pharmaceutical pricing program;

new requirements to report financial arrangements with physicians and teaching hospitals;

a new requirement to annually report drug samples that manufacturers and distributors provide to physicians; and

a new Patient-Centered Outcomes Research Institute to oversee, identify priorities in, and conduct comparative clinical effectiveness research, along with funding for such research.

In addition, other legislative changes have been proposed and adopted since the PPACA was enacted. These changes include aggregate reductions to Medicare payments to providers of up to 2% per fiscal year, starting in 2013. In January 2013, President Obama signed into law the American Taxpayer Relief Act of 2012, which, among other things, reduced Medicare payments to several providers, and increased the statute of limitations period for the government to recover overpayments to providers from three to five years. These new laws may result in additional reductions in Medicare and other healthcare funding.

We expect that the PPACA, as well as other healthcare reform measures that may be adopted in the future, may result in more rigorous coverage criteria and in additional downward pressure on the price that we receive for any approved product. Any reduction in reimbursement from Medicare or other government programs may result in a similar reduction in payments from private payors. The implementation of cost containment measures or other healthcare reforms may prevent us from being able to generate revenue, attain profitability, or commercialize our products.

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

Governments outside of the United States tend to impose strict price controls, which may adversely affect our revenues, if any.

In some countries, particularly the countries of the European Union, the pricing of prescription pharmaceuticals is subject to governmental control. In these countries, pricing negotiations with governmental authorities can take considerable time after the receipt of marketing approval for a product. To obtain reimbursement or pricing approval in some countries, we may be required to conduct a clinical trial that compares the cost-effectiveness of our product candidate to other available therapies. If reimbursement of our products is unavailable or limited in scope or amount, or if pricing is set at unsatisfactory levels, our business could be harmed, possibly materially.

If we fail to comply with environmental, health and safety laws and regulations, we could become subject to fines or penalties or incur costs that could harm our business.

We are subject to numerous environmental, health and safety laws and regulations, including those governing laboratory procedures and the handling, use, storage, treatment and disposal of hazardous materials and wastes. Our operations involve the use of hazardous and flammable materials, including chemicals and biological materials. Our operations also produce hazardous waste products. We generally contract with third parties for the disposal of these materials and wastes. We cannot eliminate the risk of contamination or injury from these materials. In the event of contamination or injury resulting from our use of hazardous materials, we could be held liable for any resulting damages, and any liability could exceed our resources. We also could incur significant costs associated with civil or criminal fines and penalties for failure to comply with such laws and regulations.

Although we maintain workers compensation insurance to cover us for costs and expenses we may incur due to injuries to our employees resulting from the use of hazardous materials, this insurance may not provide adequate coverage against potential liabilities. We do not maintain insurance for environmental liability or toxic tort claims that may be asserted against us in connection with our storage or disposal of biological, hazardous or radioactive materials.

In addition, we may incur substantial costs in order to comply with current or future environmental, health and safety laws and regulations. These current or future laws and regulations may impair our research, development or production efforts. Our failure to comply with these laws and regulations also may result in substantial fines, penalties or other sanctions.

Risks Related to Employee Matters and Managing Growth

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

We are highly dependent on the research and development, clinical and business development expertise of Robert J. Gould, Ph.D., our Chief Executive Officer, Jason P. Rhodes, our President, Chief Financial Officer and Treasurer, Robert A. Copeland, Ph.D., our Executive Vice President and Chief Scientific Officer, and Eric E. Hedrick, M.D., our Chief Medical Officer, as well as the other principal members of our management, scientific and clinical team. Although we have entered into employment letter agreements with our executive officers, each

of them may terminate their employment with us at any time. We do not maintain key person insurance for any of our executives or other employees.

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

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

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

# Risks Related to Our Common Stock and This Offering

After this offering, our executive officers and directors and their affiliates, if they choose to act together, will continue to have the ability to control or significantly influence all matters submitted to stockholders for approval.

Our executive officers and directors and their affiliates beneficially own, in the aggregate, shares representing approximately 76.3% of our common stock before this offering. If we issue and sell the shares of common stock we are offering hereby and the selling stockholders sell the shares of common stock they are offering hereby then our executive officers and directors and their affiliates will own, in the aggregate, shares representing approximately 66.1% of our common stock after this offering, assuming no exercise by the underwriters of their option to purchase additional shares and no exercise of options outstanding as of December 31, 2013. As a result, following this offering, if these stockholders were to choose to act together, they would be able to control or significantly influence all matters submitted to our stockholders for approval, as well as our management and affairs. For example, these persons, if they choose to act together, would control or significantly influence the election of directors and approval of any merger, consolidation or sale of all or substantially all of our assets.

This concentration of ownership control may:

delay, defer or prevent a change in control;

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entrench our management and board of directors; or

impede a merger, consolidation, takeover or other business combination involving us that other stockholders may desire.

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

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

establish a classified board of directors such that only one of three classes of directors is elected each year;

allow the authorized number of our directors to be changed only by resolution of our board of directors;

limit the manner in which stockholders can remove directors from our board of directors;

establish advance notice requirements for stockholder proposals that can be acted on at stockholder meetings and nominations to our board of directors;

require that stockholder actions must be effected at a duly called stockholder meeting and prohibit actions by our stockholders by written consent:

limit who may call stockholder meetings;

authorize our board of directors to issue preferred stock without stockholder approval, which could be used to institute a poison pill that would work to dilute the stock ownership of a potential hostile acquirer, effectively preventing acquisitions that have not been approved by our board of directors; and

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

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

Some provisions in our collaboration agreements with Celgene and Eisai could deter potential buyers of our company from proposing an acquisition and could make us a less attractive target for them. These provisions include the following:

We granted Celgene an exclusive license, for all countries other than the United States, to HMT inhibitors directed to DOT1L and an option, on a target-by-target basis, to exclusively license, for all countries of the world other than the United States, rights to HMT inhibitors directed to any other HMT targets during the option period, excluding targets covered by our two other existing therapeutic collaborations. During the option period specified in the agreement, which could extend until July 2016, Celgene has the right to exercise its option to license non-U.S. rights to additional targets other than DOT1L until the effectiveness of an IND for an HMT inhibitor directed to such additional target. This option effectively covers all HMT targets that are not currently subject to our Eisai and GSK collaborations. The decision to exercise the options for available targets is in Celgene s sole discretion.

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Under our collaboration agreement with Celgene, we granted to Celgene a right of first negotiation with respect to business combination transactions that we may desire to pursue with third parties during the option period, including any extension of this period. During the option period, we are required to notify Celgene if we desire to pursue a specified business combination transaction with a third party prior to negotiating terms with the third party, and after so notifying Celgene, we have agreed not to, directly or indirectly, solicit, initiate or encourage proposals from, discuss or negotiate with, or provide any information to, any third party related to the proposed transaction for a specified period from the date we first notify Celgene of such proposed transaction, or the Celgene negotiation period. If Celgene notifies us that it is interested in entering into the proposed transaction, we have agreed to negotiate in good faith with Celgene during the Celgene negotiation period. Following the Celgene negotiation period, if we have not entered into the proposed transaction with Celgene, or if Celgene does not notify us that it is interested in entering into the proposed transaction, we are free to enter into the proposed transaction with a third party for a period of 225 days following the expiration of the Celgene negotiation period, but we are obligated to re-offer the proposed transaction to Celgene if, during the option term, we propose to enter into the proposed transaction with a third party on terms that, in specified respects, are less favorable to us than the terms last offered by Celgene.

Under our collaboration agreement with Eisai, if we undergo a specified change of control event in which we are acquired by or combine with an entity with a specified competing business, or if following a change of control event we materially breach the agreement, Eisai will have the right to terminate our co-development, co-commercialization and profit sharing option and, if we have previously exercised our option, our co-development, co-commercialization and profit sharing rights.

If you purchase shares of common stock in this offering, you will suffer immediate dilution of your investment.

The price of our common stock in this offering will be substantially higher than the net tangible book value per share of our common stock. Therefore, if you purchase shares of our common stock in this offering, you will pay a price per share that substantially exceeds our net tangible book value per share after this offering. To the extent outstanding options are exercised, you will incur further dilution. Based on an assumed public offering price of \$30.40 per share, which was the last reported sale price of our common stock on January 31, 2014, you will experience immediate dilution of \$24.92 per share, representing the difference between our as adjusted net tangible book value per share after giving effect to this offering and the assumed public offering price.

An active trading market for our common stock may not be sustained following this offering.

Although our common stock is listed on The NASDAQ Global Market, an active trading market for our shares may not be sustained following this offering. If an active market for our common stock does not continue, it may be difficult for you to sell your shares, including shares you may purchase in this offering, without depressing the market price for the shares or to sell your shares at all. Any inactive trading market for our common stock may also impair our ability to raise capital to continue to fund our operations by selling shares and may impair our ability to acquire other companies or technologies by using our shares as consideration.

The price of our common stock has been and may in the future be volatile and fluctuate substantially, which could result in substantial losses for purchasers of our common stock in this offering.

Our stock price has been and may in the future be volatile. From May 31, 2013 to January 31, 2014, the sale price of our common stock as reported on the NASDAQ Global Market ranged from a high of \$45.72 per share to a low of \$18.10 per share. The stock market in general and the market for smaller biopharmaceutical companies in particular have experienced extreme volatility that has often been unrelated to the operating performance of particular companies. As a result of this volatility, you may not be able to sell the shares of

common stock you acquire in this offering at or above the price paid by you in this offering. The market price for our common stock may be influenced by many factors, including:

the success of competitive products or technologies; results of clinical trials of our product candidates or those of our competitors; regulatory or legal developments in the United States and other countries; developments or disputes concerning patent applications, issued patents or other proprietary rights; the recruitment or departure of key personnel; the level of expenses related to any of our product candidates or clinical development programs; the results of our efforts to discover, develop, acquire or in-license additional product candidates or products; actual or anticipated changes in estimates as to financial results, development timelines or recommendations by securities analysts; variations in our financial results or the financial results of companies that are perceived to be similar to us; changes in the structure of healthcare payment systems; market conditions in the pharmaceutical and biotechnology sectors; general economic, industry and market conditions; and the other factors described in this Risk Factors section.

We have broad discretion over the use of our cash and cash equivalents, including the net proceeds we receive in this offering and may not use them effectively.

Our management has broad discretion to use our cash and cash equivalents, including the net proceeds we receive in this offering, to fund our operations and could spend these funds in ways that do not improve our results of operations or enhance the value of our common stock. The failure by our management to apply these funds effectively could result in financial losses that could have a material adverse effect on our business, cause the price of our common stock to decline and delay the development of our product candidates. Pending their use to fund

operations, we may invest our cash and cash equivalents in a manner that does not produce income or that loses value.

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

Sales of a substantial number of shares of our common stock in the public market, or the perception in the market that the holders of a large number of shares intend to sell shares, could reduce the market price of our common stock. Upon completion of this offering, based on our shares outstanding as of December 31, 2013 and assuming the exercise by certain selling stockholders of options to purchase 123,500 shares to be sold in this offering, we will have 31,617,947 shares of common stock outstanding, assuming no exercise of the underwriters—option to purchase additional shares of common stock. Of these shares, 20,224,679 are currently restricted as a result of securities laws or lock-up agreements entered into in connection with this offering but will be able to be sold after this offering as described in the—Shares Eligible for Future Sale—section of this prospectus. The remaining 11,393,268 shares, including any shares purchased in this offering, may be resold into the public market immediately without restriction, unless owned or purchased by our affiliates. Moreover, after this offering, holders of an aggregate of 18,762,333 shares of our common stock will have the right, subject to specified conditions, to require us to file registration statements covering their shares or, along with holders of an additional 178,331 shares of our common stock, to include their shares in registration statements that we may file for ourselves or other stockholders.

As of December 31, 2013, there were 6,322,807 shares subject to outstanding options or that are otherwise issuable under our equity compensation plans. In June 2013, we registered all of these shares under the Securities Act of 1933, as amended, on a registration statement on Form S-8. These shares can be freely sold in the public market upon issuance, subject to volume limitations applicable to affiliates and the lock-up agreements described in the Underwriting section of this prospectus.

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

We are an emerging growth company, as defined in the Jumpstart Our Business Startups Act of 2012, or the JOBS Act, and may remain an emerging growth company through 2018. For so long as we remain an emerging growth company, we are permitted and intend to rely on exemptions from certain disclosure requirements that are applicable to other public companies that are not emerging growth companies. These exemptions include:

being permitted to provide only two years of audited financial statements, in addition to any required unaudited interim financial statements, with correspondingly reduced Management s Discussion and Analysis of Financial Condition and Results of Operations disclosure:

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

not being required to comply with any requirement that may be adopted by the Public Company Accounting Oversight Board regarding mandatory audit firm rotation or a supplement to the auditor s report providing additional information about the audit and the financial statements;

reduced disclosure obligations regarding executive compensation; and

exemptions from the requirements of holding a nonbinding advisory vote on executive compensation and stockholder approval of any golden parachute payments not previously approved.

We cannot predict whether investors will find our common stock less attractive if we rely on these exemptions. If some investors find our common stock less attractive, as a result, there may be a less active trading market for our common stock and our stock price may be more volatile. In addition, the JOBS Act provides that an emerging growth company can take advantage of an extended transition period for complying with new or revised accounting standards. This provision allows an emerging growth company to delay the adoption of these accounting standards until they would otherwise apply to private companies. We have irrevocably elected not to avail ourselves of this exemption and, therefore, we will be subject to the same new or revised accounting standards as other public companies that are not emerging growth companies.

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

As a public company, and particularly after we are no longer an emerging growth company, we will continue to incur significant legal, accounting and other expenses. The Sarbanes-Oxley Act of 2002, the Dodd-Frank Wall Street Reform and Consumer Protection Act, the listing

requirements of The NASDAQ Global Market and other applicable securities rules and regulations impose various requirements on public companies, including establishment and maintenance of effective disclosure and financial controls and corporate governance practices. Our management and other personnel will need to continue to devote a substantial amount of time to these compliance initiatives. Moreover, these rules and regulations will increase our legal and financial compliance costs and make some activities more time-consuming and costly.

We cannot predict or estimate the amount of additional costs we may incur to continue to operate as a public company, nor can we predict the timing of such costs. These rules and regulations are often subject to varying

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interpretations, in many cases due to their lack of specificity, and, as a result, their application in practice may evolve over time as new guidance is provided by regulatory and governing bodies which could result in continuing uncertainty regarding compliance matters and higher costs necessitated by ongoing revisions to disclosure and governance practices.

Pursuant to Section 404 of the Sarbanes-Oxley Act of 2002, or Section 404, we are required to furnish a report by our management on our internal control over financial reporting. However, while we remain an emerging growth company, we are not required to include an attestation report on internal control over financial reporting issued by our independent registered public accounting firm. To achieve compliance with Section 404 within the prescribed period, we are engaged in a process to document and evaluate our internal control over financial reporting, which is both costly and challenging. In this regard, we will need to continue to dedicate internal resources, potentially engage outside consultants and adopt a detailed work plan to assess and document the adequacy of internal control over financial reporting, continue steps to improve control processes as appropriate, validate through testing that controls are functioning as documented and implement a continuous reporting and improvement process for internal control over financial reporting. If we identify one or more material weaknesses, it could result in an adverse reaction in the financial markets due to a loss of confidence in the reliability of our financial statements.

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

We have never declared or paid cash dividends on our capital stock. We currently intend to retain all of our future earnings, if any, to finance the growth and development of our business. In addition, the terms of any future debt agreements may preclude us from paying dividends. As a result, capital appreciation, if any, of our common stock will be your sole source of gain for the foreseeable future.

If securities or industry analysts do not continue to publish research, or publish inaccurate or unfavorable research, about our business, our share price and trading volume could decline.

The trading market for our common stock may be impacted, in part, by the research and reports that securities or industry analysts publish about us or our business. There can be no assurance that analysts will cover us, continue to cover us or provide favorable coverage. If one or more analysts downgrade our stock or change their opinion of our stock, our share price may decline. In addition, if one or more analysts cease coverage of our company or fail to regularly publish reports on us, we could lose visibility in the financial markets, which could cause our share price or trading volume to decline.

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#### SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS AND INDUSTRY DATA

This prospectus contains forward-looking statements that involve substantial risks and uncertainties. All statements, other than statements of historical fact, contained in this prospectus, including statements regarding our strategy, future operations, future financial position, future revenue, projected costs, prospects, plans and objectives of management, are forward-looking statements. The words anticipate, believe, estimate, expect, intend, may, plan, predict, project, target, potential, will, would, could, should, continue, and sir to identify forward-looking statements, although not all forward-looking statements contain these identifying words.

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

our plans to develop and commercialize personalized therapeutics for patients with genetically defined cancers;

our ongoing and planned clinical trials, including the timing of anticipated results;

our ability to receive research funding and achieve anticipated milestones under our collaborations;

the timing of and our ability to obtain and maintain regulatory approvals for our product candidates;

the rate and degree of market acceptance and clinical utility of our products;

our commercialization, marketing and manufacturing capabilities and strategy;

our intellectual property position;

our ability to identify additional products or product candidates with significant commercial potential that are consistent with our commercial objectives; and

our estimates regarding expenses, future revenue, capital requirements and needs for additional financing.

We may not actually achieve the plans, intentions or expectations disclosed in our forward-looking statements, and you should not place undue reliance on our forward-looking statements. Actual results or events could differ materially from the plans, intentions and expectations disclosed in the forward-looking statements we make. We have included important factors in the cautionary statements included in this prospectus, particularly in the Risk Factors section, that we believe could cause actual results or events to differ materially from the forward-looking statements that we make. Our forward-looking statements do not reflect the potential impact of any future acquisitions, mergers, dispositions, joint ventures or investments we may make.

You should read this prospectus and the documents that we reference in this prospectus and have filed as exhibits to the registration statement of which this prospectus is a part completely and with the understanding that our actual future results may be materially different from what we expect. We do not assume any obligation to update any forward-looking statements.

This prospectus includes statistical and other industry and market data that we obtained from industry publications and research, surveys and studies conducted by third parties. Industry publications and third party research, surveys and studies generally indicate that their information has been obtained from sources believed to be reliable, although they do not guarantee the accuracy or completeness of such information. While we believe these industry publications and third party research, surveys and studies are reliable, we have not independently verified such data.

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#### USE OF PROCEEDS

We estimate that the net proceeds to us from our issuance and sale of shares of our common stock in this offering will be approximately \$85.3 million, after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us. If the underwriters exercise their option to purchase additional shares in full, we estimate that our net proceeds from this offering will be approximately \$103.3 million.

We will not receive any of the proceeds from the sale of shares in this offering by the selling stockholders.

As of September 30, 2013, we had cash and cash equivalents of \$139.6 million. We currently estimate that we will use our net proceeds from this offering, together with our existing cash and cash equivalents, as follows:

approximately \$66.0 million to fund our share of the global development costs of clinical development of EPZ-5676, including the costs of the expansion stage of our ongoing Phase 1 clinical trial of EPZ-5676 in MLL-r adult patients and MLL-PTD adult patients and our planned Phase 1b clinical trial of EPZ-5676 in MLL-r pediatric patients;

if we exercise our opt-in right to co-develop, co-commercialize and share profits in the United States for EPZ-6438, approximately \$28.0 million to fund a portion of our share of U.S. development costs of EPZ-6438, including the costs of our planned Phase 2 clinical trial of EPZ-6438 in non-Hodgkin lymphoma patients with EZH2 point mutations as part of our ongoing Phase 1/2 clinical trial of EPZ-6438 and our planned Phase 2 clinical trial of EPZ-6438 in synovial sarcoma patients;

approximately \$76.0 million to fund research and development to build our product platform and advance our pipeline of preclinical product candidates; and

the remainder for working capital and general corporate purposes.

This expected use of our net proceeds from this offering represents our intentions based upon our current plans and business conditions, which could change in the future as our plans and business conditions evolve. The amounts and timing of our actual expenditures may vary significantly depending on numerous factors, including the progress of our development, the status of and results from clinical trials, as well as any collaborations that we may enter into with third parties for our product candidates, and any unforeseen cash needs. As a result, our management will retain broad discretion over the allocation of the net proceeds from this offering.

Based on our planned use of our net proceeds from this offering described above, we estimate that such funds, together with our existing cash and cash equivalents as of September 30, 2013, accounts receivable for milestones earned in December 2013 and research funding that we expect to receive under our existing collaborations, will enable us to fund our operations and capital expenditure requirements until at least mid-2016, without giving effect to any potential option exercise fees or milestone payments we may receive under our collaboration agreements. Prior to such time, we expect to complete four ongoing and planned proof-of-concept trials in five genetically defined cancer patient groups: MLL-r adult patients, MLL-PTD adult patients, MLL-r pediatric patients, non-Hodgkin lymphoma patients with EZH2 point mutations and synovial sarcoma patients.

Pending our use of our net proceeds from this offering, we intend to invest the net proceeds in a variety of capital preservation investments, including short-term, investment-grade, interest-bearing instruments and U.S. government securities.

#### PRICE RANGE OF COMMON STOCK

Our common stock began trading on The NASDAQ Global Market under the symbol EPZM on May 31, 2013. Prior to that time, there was no public market for our common stock. The following table sets forth the high and low sale prices per share of our common stock, as reported on The NASDAQ Global Market, for the periods indicated.

	High	Low
Year Ended December 31, 2013		
Second quarter (from May 31, 2013)	\$ 30.86	\$ 18.60
Third quarter	\$ 45.72	\$ 26.06
Fourth quarter	\$ 42.71	\$ 18.10
Year Ending December 31, 2014		
First quarter (through January 31, 2014)	\$ 41.23	\$ 19.76

On January 31, 2014, the last reported sale price of our common stock as reported on The NASDAQ Global Market was \$30.40 per share. As of the date of this prospectus, we had approximately 31 holders of record of our common stock. The actual number of stockholders is greater than this number of record holders and includes stockholders who are beneficial owners but whose shares are held in street name by brokers and other nominees. This number of holders of record also does not include stockholders whose shares may be held in trust by other entities.

# DIVIDEND POLICY

We have never declared or paid cash dividends on our capital stock. We intend to retain all of our future earnings, if any, to finance the growth and development of our business. We do not intend to pay cash dividends to our stockholders in the foreseeable future.

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#### **CAPITALIZATION**

The following table sets forth our cash and cash equivalents and capitalization as of September 30, 2013:

on an actual basis; and

on an as adjusted basis to give effect to our issuance and sale of 3,000,000 shares of our common stock in this offering at an assumed public offering price of \$30.40 per share, which was the last reported sale price of our common stock on The NASDAQ Global Market on January 31, 2014, after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us, and also assumes the exercise by certain selling stockholders of options to purchase 123,500 shares to be sold by them in this offering.

You should read this table in conjunction with the Management s Discussion and Analysis of Financial Condition and Results of Operations section of this prospectus and with our consolidated financial statements and the notes thereto included elsewhere in this prospectus.

	As of September 30, 2013 Actual As Adjusted (in thousands)	
Cash and cash equivalents	\$ 139,575	\$ 225,068
Stockholders equity:		
Common stock, \$0.0001 par value; 125,000,000 shares authorized, 28,418,420 shares issued and 28,408,698		
shares outstanding, actual; and 125,000,000 shares authorized, 31,541,920 shares issued and 31,532,198		
shares outstanding, as adjusted	3	3
Additional paid-in capital	159,290	244,783
Accumulated deficit	(72,010)	(72,010)
Total stockholders equity	87,283	172,776
Total capitalization	\$ 87,283	\$ 172,776

The table above does not include:

4,649,530 shares of our common stock issuable upon the exercise of stock options outstanding as of September 30, 2013 at a weighted average exercise price of \$2.97 per share; and

1,625,804 shares of our common stock available for future issuance under our equity compensation plans as of September 30, 2013.

#### DILUTION

If you invest in our common stock in this offering, your ownership interest will be diluted immediately to the extent of the difference between the public offering price per share of our common stock and the as adjusted net tangible book value per share of our common stock after this offering.

Our historical net tangible book value as of September 30, 2013 was \$87.3 million, or \$3.07 per share of our common stock. Historical net tangible book value per share represents the amount of our total tangible assets less total liabilities, divided by the number of shares of our common stock outstanding as of September 30, 2013, which includes 9,722 shares of unvested restricted stock.

After giving effect to our issuance and sale of 3,000,000 shares of our common stock in this offering at an assumed public offering price of \$30.40 per share, which was the last reported sale price of our common stock on The NASDAQ Global Market on January 31, 2014, as well as the exercise by certain selling stockholders of options to purchase 123,500 shares to be sold by them in this offering, and after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us, our as adjusted net tangible book value as of September 30, 2013 would have been \$172.8 million, or \$5.48 per share. This represents an immediate increase in as adjusted net tangible book value per share of \$2.41 to existing stockholders and immediate dilution of \$24.92 in as adjusted net tangible book value per share to new investors purchasing common stock in this offering. Dilution per share to new investors is determined by subtracting as adjusted net tangible book value per share after this offering from the public offering price per share paid by new investors. The following table illustrates this dilution on a per share basis:

Assumed public offering price per share		\$ 30.40
Historical net tangible book value per share as of September 30, 2013	\$ 3.07	
Increase in net tangible book value per share attributable to new investors	2.41	
As adjusted net tangible book value per share after this offering		5.48
Dilution per share to new investors		\$ 24.92

If the underwriters exercise their option to purchase additional shares or if any additional shares are issued in connection with the exercise of options, you will experience further dilution.

CEIC, which is affiliated with one of our collaborators and is an existing investor, has indicated an interest in purchasing up to that number of shares of our common stock in this offering at the public offering price such that CEIC s percentage ownership of our common stock following the offering would be the same as, or less than, its current percentage ownership. Assuming a public offering price of \$30.40 per share, the last sale price of our common stock on January 31, 2014, CEIC would purchase an aggregate of up to approximately 347,100 of the 4.2 million shares offered in this offering for an aggregate purchase price of approximately \$10.6 million, based on this indication of interest. However, because indications of interest are not binding agreements or commitments to purchase, CEIC may determine to purchase fewer shares than it has indicated an interest in purchasing or not to purchase any shares in this offering. In addition, the underwriters could determine to sell fewer shares to CEIC than it indicates an interest in purchasing or not to sell any shares to CEIC. The underwriters will receive the same underwriting discount on any shares purchased by CEIC as they will on any other shares sold to the public in this offering.

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#### SELECTED CONSOLIDATED FINANCIAL DATA

The following selected consolidated financial data as of and for the years ended December 31, 2011 and 2012 has been derived from our audited consolidated financial statements as of December 31, 2011 and 2012 and for the years then ended included elsewhere in this prospectus. The following selected consolidated statements of operations data for the nine months ended September 30, 2012 and 2013 and the balance sheet data as of September 30, 2013 have been derived from our unaudited consolidated financial statements included elsewhere in this prospectus. Our historical results for any prior period are not necessarily indicative of results to be expected in any future period, and our interim period results are not necessarily indicative of results to be expected for a full year or any other interim period.

The information set forth below should be read in conjunction with the Management s Discussion and Analysis of Financial Condition and Results of Operations section of this prospectus and with our consolidated financial statements and notes thereto included elsewhere in this prospectus.

	Year Ended 1 2011	December 31, 2012 (in thousands, exc	Nine Months Endo 2012 cept per share data)	ed Sep	tember 30, 2013
Consolidated Statements of Operations Data:					
Collaboration revenue	\$ 6,944	\$ 45,222	\$ 36,327	\$	32,165
Operating expenses:					
Research and development	22,911	38,482	27,385		41,882
General and administrative	5,000	7,508	5,175		9,664
Total operating expenses	27,911	45,990	32,560		51,546
(Loss) income from operations	(20,967)	(768)	3,767		(19,381)
	, , ,	· · ·	·		
Other income (expense), net	10	67	69		(32)
Income tax expense	10	1	0)		(32)
income tax expense		•			
Net (loss) income	\$ (20,957)	\$ (702)	\$ 3,836	\$	(19,413)
Less: accretion of redeemable convertible preferred stock to					
redemption value	45	486	326		264
Less: income allocable to participating securities			3,239		
(Loss) income allocable to common stockholders basic	(21,002)	(1,188)	271		(19,677)
Undistributed income re-allocated to common stockholders	(21,002)	(1,100)	147		(1),077)
Chaistroated meonic to unocated to common stockholaels			117		
(Loss) income allocable to common stockholders diluted	\$ (21,002)	\$ (1,188)	\$ 418	\$	(19,677)
(Loss) income anocable to common stockholders—diluted	\$ (21,002)	φ (1,100)	Ф 410	Ф	(19,077)
(Loss) earnings per share allocable to common stockholders:					
Basic	\$ (14.65)	\$ (0.72)	\$ 0.17	\$	(1.49)
Diluted	\$ (14.65)	\$ (0.72)	\$ 0.16	\$	(1.49)
Weighted average shares outstanding:					
Basic	1,434	1,645	1,637		13,212
Diluted	1,434	1,645	2,641		13,212

As of December 31, As of 2011 2012 September 30,

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			2013
		(in thousands)	
Consolidated Balance Sheet Data:			
Cash and cash equivalents	\$ 33,341	\$ 97,981	\$ 139,575
Total assets	37,360	103,511	147,350
Deferred revenue	29,817	69,445	50,706
Redeemable convertible preferred stock	53,747	76,156	
Total stockholders (deficit) equity	(50,644)	(51,126)	87,283

#### MANAGEMENT S DISCUSSION AND ANALYSIS OF

#### FINANCIAL CONDITION AND RESULTS OF OPERATIONS

You should read the following discussion and analysis of our financial condition and results of operations in conjunction with our consolidated financial statements and notes thereto included elsewhere in this prospectus. Some of the information contained in this discussion and analysis or set forth elsewhere in this prospectus, including information with respect to our plans and strategy for our business and related financing, includes forward-looking statements that involve risks and uncertainties. As a result of many factors, including those factors set forth in the Risk Factors section of this prospectus, our actual results could differ materially from the results described in or implied by the forward-looking statements contained in the following discussion and analysis.

#### Overview

We are a clinical stage biopharmaceutical company that discovers, develops and plans to commercialize innovative personalized therapeutics for patients with genetically defined cancers. We have built a proprietary product platform that we use to create small molecule inhibitors of a 96-member class of enzymes known as histone methyltransferases, or HMTs. Genetic alterations can result in changes to the activity of HMTs, making them oncogenic. Our therapeutic strategy is to inhibit oncogenic HMTs to treat the underlying causes of the associated genetically defined cancers.

We are a leader in the translation of the science of epigenetics into first-in-class personalized therapeutics for patients with genetically defined cancers and currently have two HMT inhibitors in clinical development for the treatment of patients with genetically defined cancers. We believe we are the first company to conduct a clinical trial of an HMT inhibitor. We are conducting a Phase 1 clinical trial of our most advanced product candidate, EPZ-5676, an inhibitor targeting the DOT1L HMT, being developed for the treatment of acute leukemias with genetic alterations of the *MLL* gene, referred to as MLL-r and MLL-PTD. We are also conducting a Phase 1/2 clinical trial of our second most advanced product candidate, EPZ-6438, an inhibitor targeting the EZH2 HMT, being developed for the treatment of a genetically defined subtype of non-Hodgkin lymphoma and solid tumors including INI1-deficient tumors such as synovial sarcoma and malignant rhabdoid tumors, or MRT.

In 2014, we plan to have four clinical trials ongoing that are intended to assess the proof of concept of our product candidates in five genetically defined cancer patient groups:

The expansion stage of our ongoing Phase 1 clinical trial of EPZ-5676 in MLL-r adult patients and MLL-PTD adult patients;

Our planned Phase 1b clinical trial of EPZ-5676 in MLL-r pediatric patients;

Our planned Phase 2 clinical trial of EPZ-6438 in non-Hodgkin lymphoma patients with EZH2 point mutations as part of our ongoing Phase 1/2 clinical trial of EPZ-6438; and

Our planned Phase 2 clinical trial of EPZ-6438 in synovial sarcoma patients.

The initiation of our proof-of-concept trials of EPZ-6438 is subject to our review of the data from the Phase 1 clinical trial of EPZ-6438 that we are conducting as part of our ongoing Phase 1/2 clinical trial of EPZ-6438.

In addition to our clinical programs, we also have a pipeline of HMT inhibitors in preclinical development that target our other prioritized HMTs in the HMTome. These programs are directed to genetically defined cancers, both hematological and solid tumors.

We have entered into three therapeutic collaborations that have provided us with \$133.3 million in non-equity funding as of September 30, 2013. We retain commercialization or co-commercialization rights in the United States under two of these collaborations. On January 6, 2014, we announced that we had earned a \$25.0 million proof-of-concept milestone in our collaboration with Celgene Corporation and Celgene International Sàrl, collectively referred to as Celgene, in December 2013 by achieving objective responses in two MLL-r

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patients enrolled in the dose escalation stage of our Phase 1 trial of EPZ-5676 and a \$4.0 million milestone in our collaboration with Glaxo Group Limited (an affiliate of GlaxoSmithKline), or GSK, by achieving a development candidate milestone.

The clinical development plan for each of our therapeutic product candidates is directed towards patients with a particular genetically defined cancer. For many of our therapeutic product candidates, we plan to develop a companion diagnostic for the identification of patients with the genetically defined cancers that we seek to treat with our therapeutic product candidates. We plan to include patients with the particular genetically defined cancer in our clinical trials beginning in Phase 1 with a view to assessing possible early evidence of potential therapeutic effect. As we are tailoring our personalized therapeutics for discrete patient populations with genetically defined cancers, we believe that many of our products may qualify for orphan drug designation in the United States, the European Union and other regions.

In addition to the therapeutic programs listed above, we are actively working with GSK on the development of three specified HMT inhibitors that are in preclinical development and for which GSK holds commercial rights. We also have active drug discovery programs for other HMTs that we have prioritized.

We design, manage and evaluate the results of all of our research and development plans centrally and have engaged a multinational network of clinical research organizations, or CROs, to execute on specific phases of our research and development programs. By employing this network of CROs, we seek to manage multiple development programs while maintaining flexibility in our cost structure.

We commenced active operations in early 2008, and our operations to date have been limited to organizing and staffing our company, business planning, raising capital, developing our technology, identifying potential product candidates, undertaking preclinical studies and, beginning in 2012, conducting clinical trials. To date, we have financed our operations primarily through our initial public offering, private placements of our preferred stock and funding received from collaboration and license agreements. All of our revenue to date has been collaboration revenue. Since our inception and through September 30, 2013, we have raised an aggregate of \$291.8 million to fund our operations, of which \$133.3 million was non-equity funding through our collaboration agreements, \$82.5 million was from our initial public offering and \$76.0 million was from the sale of preferred stock. Further, in December 2013, we earned an additional \$29.0 million in milestones from Celgene and GSK.

Since inception, we have incurred significant operating losses. Our net loss was \$21.0 million for the year ended December 31, 2011, \$0.7 million for the year ended December 31, 2012 and \$19.4 million for the nine months ended September 30, 2013. As of September 30, 2013, we had an accumulated deficit of \$72.0 million. We expect to continue to incur significant expenses and operating losses over the next several years. Our net losses may fluctuate significantly from quarter to quarter and year to year. We anticipate that our expenses will increase substantially as we continue our Phase 1 clinical trial of EPZ-5676 in MLL-r and MLL-PTD adult patients; initiate our planned Phase 1b clinical trial of EPZ-6438 in patients with MLL-r; continue our Phase 1/2 clinical trial of EPZ-6438, subject to our opt-in right; initiate our planned Phase 2 clinical trial of EPZ-6438 in patients with synovial sarcoma, subject to our opt-in right; continue the research and development of our other product candidates; seek to discover and develop additional product candidates; seek regulatory approvals for our product candidates that successfully complete clinical trials; establish a sales, marketing and distribution infrastructure and scale up external manufacturing capabilities to commercialize any products for which we may obtain regulatory approval; maintain, expand and protect our intellectual property portfolio; hire additional clinical, quality control and scientific personnel; and add operational, financial and management information systems and personnel, including personnel to support our product development and planned future commercialization efforts.

#### Collaborations

We have entered into a number of strategic collaborations for our therapeutic programs and corresponding companion diagnostics. Our therapeutic collaborations provide us with significant funding for both our specific

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development programs and our product platform. They also provide us with access to the considerable scientific, development, regulatory and commercial capabilities of our collaborators. We believe that our collaborations have contributed to our ability to rapidly progress our most advanced product candidates, build our product platform and concurrently progress a wide range of development programs. We have established the following key collaborations:

# Celgene

In April 2012, we entered into a collaboration and license agreement with Celgene to discover, develop and commercialize, in all countries other than the United States, small molecule HMT inhibitors targeting DOT1L, including EPZ-5676, and any other HMT targets from our product platform for patients with genetically defined cancers, excluding targets covered by our two other existing therapeutic collaborations, which we refer to as the available targets.

Agreement Structure

Under the terms of the agreement, through September 30, 2013, we received a \$65.0 million upfront payment and \$25.0 million from the sale of our series C preferred stock to an affiliate of Celgene, of which \$3.0 million was considered a premium and included as collaboration arrangement consideration for a total upfront payment of \$68.0 million, and in December 2013, we earned a \$25.0 million clinical development milestone. In addition, we are eligible to earn up to \$35.0 million in clinical development milestone payments and up to \$100.0 million in regulatory milestone payments related to DOT1L. We are also eligible to earn up to \$65.0 million in payments, including a combination of clinical development milestone payments and an option exercise fee, and up to \$100.0 million in regulatory milestone payments for each available target as to which Celgene exercises its option during an initial option period ending in July 2015. Celgene has the right to extend the option period until July 2016 by making a significant option extension payment. As to DOT1L and each available target as to which Celgene may exercise its option, we retain all product rights in the United States and are eligible to receive royalties for each target at defined percentages ranging from the mid-single digits to the mid-teens on net product sales outside of the United States, subject to reductions in specified circumstances. Due to the uncertainty of pharmaceutical development and the high historical failure rates generally associated with pharmaceutical development, we may not receive any milestone or royalty payments from Celgene. The next potential milestone payment that we might be entitled to receive under this agreement is \$35.0 million for the initiation of a pivotal clinical trial, as defined in the agreement, for our DOT1L inhibitor.

We are obligated to conduct and solely fund research and development costs of the Phase 1 clinical trials for EPZ-5676 and through the effectiveness of the first investigational new drug application for an HMT inhibitor directed to each available target selected by Celgene, after which Celgene and we will equally co-fund global development and each party will solely fund territory-specific development costs for its territory. In the third quarter of 2013, we recorded accounts receivable of \$0.7 million related to non-Phase 1 global development costs subject to the co-funding provisions of this agreement. Global development co-funding from Celgene is recorded as a reduction to research and development expense.

Collaboration Revenue

Through September 30, 2013, in addition to amounts allocated to Celgene s purchase of shares of our series C preferred stock, we had received a total of \$68.0 million in upfront payments under the Celgene agreement, including a \$3.0 million implied premium on Celgene s purchase of our series C preferred stock. Through September 30, 2013, we have recognized \$34.7 million of collaboration revenue in the consolidated statements of operations and comprehensive (loss) income related to this agreement, including \$23.9 million in the year ended December 31, 2012 and \$20.3 million and \$10.8 million in the nine months ended September 30, 2012 and 2013, respectively. As of December 31, 2012 and

September 30, 2013, we had deferred revenue of \$44.1 million and \$33.3 million, respectively, related to this agreement.

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Eisai

In April 2011, we entered into a collaboration and license agreement with Eisai under which we granted Eisai an exclusive worldwide license to our small molecule HMT inhibitors directed to EZH2, including EPZ-6438, while retaining an opt-in right to co-develop, co-commercialize and share profits with Eisai as to licensed products in the United States. Additionally, as part of the research collaboration, we agreed to provide research and development services related to the licensed compounds through December 31, 2014.

Agreement Structure

Under the terms of the agreement, we have recorded a \$3.0 million upfront payment, \$7.0 million in preclinical research and development milestone payments, a \$6.0 million clinical development milestone payment and cash payments and accounts receivable of an aggregate of \$16.5 million for research and development services through September 30, 2013. We are eligible to earn up to \$25.0 million in additional clinical development milestone payments, up to \$55.0 million in regulatory milestone payments and up to \$115.0 million in sales-based milestone payments. We are also eligible to receive royalties at a percentage in the mid-single digits on any net product sales outside the United States and at a percentage from the mid-single digits to low double-digits on any net product sales in the United States, subject to reduction in specified circumstances. Due to the uncertainty of pharmaceutical development and the high historical failure rates generally associated with pharmaceutical development, we may not receive any additional milestone payments or royalty or profit share payments from Eisai. The next potential milestone payment that we might be entitled to receive under this agreement is \$10.0 million for the initiation of the Phase 2 portion of the Phase 1/2 clinical trial.

Eisai solely funds all research, development and commercialization costs for licensed compounds, except for the cost obligations that we will undertake if we exercise our opt-in right to co-develop, co-commercialize and share profits with Eisai as to licensed products in the United States. If we exercise our opt-in right as to a licensed compound, the licensed compound would become a shared product as to which Eisai s obligation to pay royalties to us as to such shared product in the United States will terminate; Eisai and we will share in net profits or losses with respect to such shared product in the United States; 25.0% of specified past development costs will become creditable by Eisai against future milestones or royalties due to us, subject to specified limitations; Eisai and we will share equally in subsequent development costs allocated to the United States; and all subsequent milestone payments that become payable by Eisai to us based on the shared product will be decreased by 50.0%.

Collaboration Revenue

Through September 30, 2013, we have recorded a total of \$32.5 million in cash and accounts receivable and have recognized \$30.5 million of collaboration revenue in the consolidated statements of operations and comprehensive (loss) income related to this agreement, including \$6.6 million and \$11.5 million in the years ended December 31, 2011 and 2012, respectively, and \$9.3 million and \$12.4 million in the nine months ended September 30, 2012 and 2013, respectively, with a \$4.0 million preclinical research and development milestone achieved and recognized as collaboration revenue in the nine months ended September 30, 2012 and a \$6.0 million clinical development milestone achieved and recognized as collaboration revenue in the nine months ended September 30, 2013. As of December 31, 2012 and September 30, 2013, we had deferred revenue of \$3.2 million and \$2.0 million, respectively, related to this agreement.

**GSK** 

In January 2011, we entered into a collaboration and license agreement with GSK to discover, develop and commercialize novel small molecule HMT inhibitors directed to available targets from our product platform. Under the terms of the agreement, we granted GSK exclusive worldwide license rights to HMT inhibitors directed to three targets. Additionally, as part of the research collaboration provided for in the agreement, we agreed to provide research and development services related to the licensed targets pursuant to agreed upon research plans during a research term that ends January 8, 2015.

Agreement Structure

Under the agreement, we had received a \$20.0 million upfront payment, \$8.0 million in preclinical research and development milestone payments and \$6.0 million of fixed research funding through September 30, 2013 and in December 2013, we earned a \$4.0 million preclinical research and development milestone. We are eligible to receive up to \$17.0 million in additional preclinical research and development milestone payments, up to \$99.0 million in clinical development milestone payments, up to \$240.0 million in regulatory milestone payments and up to \$270.0 million in sales-based milestone payments. In addition, GSK is required to pay us royalties at percentages from the mid-single digits to the low double-digits, on a licensed product-by-licensed product basis, on worldwide net product sales, subject to reductions in specified circumstances. Due to the uncertainty of pharmaceutical development and the high historical failure rates generally associated with pharmaceutical development, we may not receive any additional milestone payments or royalty payments from GSK. The next potential milestone payment that we might be entitled to receive under this agreement is a preclinical research and development milestone. However, due to the varying stages of development of each licensed target, we are not able to determine the next milestone that might be achieved, if any.

For each selected target in the collaboration, we are primarily responsible for research until the selection of the development candidate, and GSK is solely responsible for subsequent development and commercialization. GSK provided a fixed amount of research funding during the second and third years of the research term and is obligated to provide research funding equal to 100.0% of research and development costs, subject to specified limitations, for any research activities we conduct in the fourth year of the research term.

#### Collaboration Revenue

Through September 30, 2013, we had received a total of \$34.0 million in payments under the GSK agreement and have recognized \$18.7 million of collaboration revenue in the consolidated statements of operations and comprehensive (loss) income related to this agreement, including \$9.7 million in the year ended December 31, 2012 and \$6.7 million and \$9.0 million in the nine months ended September 30, 2012 and 2013, respectively, with \$4.0 million in preclinical research and development milestones achieved and recognized as collaboration revenue in the nine months ended September 30, 2012. As of December 31, 2012 and September 30, 2013, we had deferred revenue of \$22.0 million and \$15.3 million, respectively, related to this agreement.

Companion Diagnostic Collaborations. In collaboration with established diagnostic companies, we are developing companion diagnostics to identify patients who have the specific genetically defined cancer targeted by our product candidate. In December 2012, Eisai and we entered into an agreement with Roche Molecular Systems, Inc., or Roche, to develop and to commercialize a companion diagnostic for use with our EPZ-6438 product candidate for non-Hodgkin lymphoma patients with EZH2 point mutations. The development costs under the agreement with Roche will be the responsibility of Eisai until such time as we may exercise our opt-in right under the collaboration with Eisai. If we exercise our opt-in right under the Eisai agreement, the costs under the Roche agreement will be shared by us and Eisai as determined under the profit share and co-commercialization components of the Eisai collaboration agreement.

In February 2013, we entered into an agreement with Abbott under which we agreed to fund Abbott s development of a companion diagnostic to identify patients with the MLL-r genetic alteration targeted by EPZ-5676. Under the terms of the agreement, we paid Abbott an upfront payment of \$0.9 million upon the execution of the agreement, are obligated to make aggregate milestone-based development payments of up to \$6.0 million and are obligated to reimburse Abbott specified costs expected to be incurred in connection with Abbott conducting clinical trials to obtain the necessary regulatory approvals for the companion diagnostic which are not to exceed \$0.9 million unless agreed to in advance.

# **Critical Accounting Policies and Use of Estimates**

Our management s discussion and analysis of financial condition and results of operations is based upon our consolidated financial statements, which have been prepared in accordance with accounting principles generally accepted in the United States of America. The preparation of these consolidated financial statements requires us to make estimates, judgments and assumptions that affect the reported amounts of assets and liabilities and disclosures of contingent assets and liabilities as of the date of the balance sheets and the reported amounts of collaboration revenue and expenses during the reporting periods. We base our estimates on historical experience and on various other assumptions that we believe to be reasonable under the circumstances at the time such estimates are made. Actual results and outcomes may differ materially from our estimates, judgments and assumptions. We periodically review our estimates in light of changes in circumstances, facts and experience. The effects of material revisions in estimates are reflected in the consolidated financial statements prospectively from the date of the change in estimate.

We define our critical accounting policies as those accounting principles generally accepted in the United States of America that require us to make subjective estimates and judgments about matters that are uncertain and are likely to have a material impact on our financial condition and results of operations as well as the specific manner in which we apply those principles. We believe the critical accounting policies used in the preparation of our financial statements which require significant estimates and judgments are as follows:

# Revenue Recognition

We recognize revenue when all of the following criteria are met: persuasive evidence of an arrangement exists; delivery has occurred or services have been rendered; our price to the customer is fixed or determinable and collectability is reasonably assured. The terms of our collaboration and license agreements typically contain multiple deliverables, which may include licenses, or options to obtain licenses, to compounds directed to specific HMT targets, referred to as exclusive licenses, as well as research and development activities to be performed by us on behalf of the collaboration partner related to the licensed HMT targets. Payments that we may receive under these agreements include non-refundable license fees, option fees, extension fees, payments for research activities, payments based upon the achievement of specified milestones and royalties on any resulting net product sales.

Multiple-Element Revenue Arrangements. Our collaborations primarily represent multiple-element revenue arrangements. To account for these transactions, we determine the elements, or deliverables, included in the arrangement and allocate arrangement consideration to the various elements based on each element s relative selling price. The identification of individual elements in a multiple-element arrangement and the estimation of the selling price of each element involve significant judgment, including consideration as to whether each delivered element has standalone value to the collaborator. We determine the estimated selling price for deliverables within each agreement using vendor-specific objective evidence of selling price, if available, or third party evidence of selling price if vendor-specific objective evidence is not available, or our best estimate of selling price, if neither vendor-specific objective evidence nor third party evidence is available. Determining the best estimate of selling price for a deliverable requires significant judgment. We typically use our best estimate of selling price to estimate the selling price for licenses to our proprietary technology, since we do not have vendor-specific objective evidence or third party evidence of selling price for these deliverables. In those circumstances where we apply our best estimate of selling price to determine the estimated selling price of a license to our proprietary technology, we consider market conditions as well as entity-specific factors, including those factors contemplated in negotiating the agreements as well as internally developed estimates that include assumptions related to the market opportunity, estimated development costs, probability of success and the time needed to commercialize a product candidate pursuant to the license. In validating our best estimate of selling price, we evaluate whether changes in the key assumptions used to determine our best estimate of selling price will have a significant effect on the allocation of arrangement consideration between deliverables. We recognize consideration allocated to an individual element when all other revenue recognition criteria are met for that element.

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Our multiple-element revenue arrangements generally include the following:

Exclusive Licenses. The deliverables under our collaboration agreements generally include exclusive licenses to discover, develop, manufacture and commercialize compounds with respect to one or more specified HMT targets. To account for this element of the arrangement, we evaluate whether the exclusive license has standalone value from the undelivered elements to the collaboration partner based on the consideration of the relevant facts and circumstances of each arrangement, including the research and development capabilities of the collaboration partner and other market participants. Arrangement consideration allocated to licenses may be recognized upon delivery of the license if facts and circumstances indicate that the license has standalone value apart from the undelivered elements, which generally include research and development services. Arrangement consideration allocated to licenses is deferred if facts and circumstances indicate that the delivered license does not have standalone value from the undelivered elements.

We have determined that some of our exclusive licenses lack standalone value apart from the related research and development services, and in those circumstances we recognize collaboration revenue from non-refundable exclusive license fees on a straight-line basis over the contracted or estimated period of performance, which is generally the period over which the research and development services are to be provided.

**Research and Development Services.** The deliverables under our collaboration and license agreements generally include deliverables related to research and development services to be performed on behalf of the collaboration partner. As the provision of research and development services is a part of our central operations, when we are principally responsible for the performance of these services under the agreements, we recognize revenue on a gross basis for research and development services as those services are performed.

*Option Arrangements.* Our arrangements may provide a collaborator with the right to select a target for licensing either at the inception of the arrangement or within an initial pre-defined selection period, which may, in certain cases, include the right of the collaborator to extend the selection period. Under these agreements, fees may be due to us at the inception of the arrangement as an upfront fee or payment, upon the exercise of an option to acquire a license or upon extending the selection period as an extension fee or payment.

The accounting for option arrangements is dependent on the nature of the options granted to the collaboration partner. Options are considered substantive if, at the inception of the arrangement, we are at risk as to whether the collaboration partner will choose to exercise the options to secure exclusive licenses. Factors that are considered in evaluating whether options are substantive include the overall objective of the arrangement, the benefit the collaborator might obtain from the arrangement without exercising the options, the cost to exercise the options relative to the total upfront consideration and the additional financial commitments or economic penalties imposed on the collaborator as a result of exercising the options. For arrangements under which the option to secure licenses is considered substantive, we do not consider the licenses to be deliverables at the inception of the arrangements where the option to secure licenses is not considered substantive, we consider the license to be a deliverable at the inception of the arrangement and, upon delivery of the license, would apply the multiple-element revenue arrangement criteria to the license and any other deliverables to determine the appropriate revenue recognition. None of the options to secure exclusive licenses included in our collaborative arrangements have been determined to be substantive.

Milestone Revenue. Our collaboration and license agreements generally include contingent milestone payments related to specified preclinical research and development milestones, clinical development milestones, regulatory milestones and sales-based milestones. Preclinical research and development milestones are typically payable upon the selection of a compound candidate for the next stage of research and development. Clinical development milestones are typically payable when a product candidate initiates or advances in clinical trial phases or achieves defined clinical events, such as proof-of-concept. Regulatory milestones are typically payable

upon submission for marketing approval with regulatory authorities, upon receipt of actual marketing approvals for a compound or for additional indications or upon the first commercial sale. Sales-based milestones are typically payable when annual sales reach specified levels.

At the inception of each arrangement that includes milestone payments, we evaluate whether each milestone is substantive and at risk to both parties on the basis of the contingent nature of the milestone. This evaluation includes an assessment of whether:

the consideration is commensurate with either the entity s performance to achieve the milestone or the enhancement of the value of the delivered item(s) as a result of a specific outcome resulting from the entity s performance to achieve the milestone;

the consideration relates solely to past performance; and

the consideration is reasonable relative to all of the deliverables and payment terms within the arrangement.

We evaluate factors such as the scientific, regulatory, commercial and other risks that must be overcome to achieve the respective milestone, the level of effort and investment required to achieve the respective milestone and whether the milestone consideration is reasonable relative to all deliverables and payment terms in the arrangement in making this assessment.

Non-refundable preclinical research and development, clinical development and regulatory milestones that are expected to be achieved as a result of our efforts during the period of our performance obligations under the collaboration and license agreements are generally considered to be substantive and are recognized as revenue upon the achievement of the milestone, assuming all other revenue recognition criteria are met. If not considered to be substantive, revenue from achievement of milestones is initially deferred and recognized over the remaining term of our performance obligations. Milestones that are not considered substantive because we do not contribute effort to their achievement are recognized as revenue upon achievement, assuming all other revenue recognition criteria are met, as there are no undelivered elements remaining and no continuing performance obligations on our part.

# Stock-Based Compensation

We issue stock-based compensation awards to employees, including stock options and restricted stock, and offer an employee stock purchase plan. We measure stock-based compensation expense related to these awards based on the fair value of the award on the date of grant and recognize stock-based compensation expense, less estimated forfeitures, on a straight-line basis over the requisite service period of the awards, which generally equals the vesting period. We have selected the Black-Scholes option pricing model to determine the fair value of stock option awards which requires the input of various assumptions that require management to apply judgment and make assumptions and estimates, including:

the expected life of the stock option award, which we calculate using the simplified method as we have insufficient historical information regarding our stock options to provide a basis for estimate;

the expected volatility of the underlying common stock, which we estimate based on the historical volatility of a peer group of comparable publicly traded companies with product candidates in similar stages of development; and

historically, the fair value of our common stock determined on the date of grant.

Compensation expense for restricted stock is based on the estimated fair value of our common stock on the date of grant. Our assumptions may differ from those used in prior periods, and changes in the assumptions may have a significant impact on the fair value of future equity awards, which could have a material impact on our consolidated financial statements. We grant stock options with exercise prices equal to the estimated fair value of our common stock on the date of grant.

The amount of stock-based compensation expense recognized during a period is based on the value of the portion of the awards that are ultimately expected to vest. We estimate forfeitures for employee grants at the time of grant, and revise the estimates, if necessary, in subsequent periods if actual forfeitures differ from those estimates. Ultimately, the actual expense recognized over the vesting period will only represent those options that vest.

The following table summarizes by grant date the number of shares of common stock underlying stock options granted from January 1, 2012 through May 30, 2013, the last day prior to the commencement of trading of our common stock on the NASDAQ Global Market, as well as the associated per share exercise price, the estimated fair value per share of our common stock on the grant date and, for awards granted in January, February and April 2013, the retrospective fair value per share on the grant date:

	Number of common shares underlying	Option exercise	Estimated fair value per common share on grant	Retrospective fair value per share on
Grant date	options granted	price	date	grant date
June 7, 2012	340,164	2.19	2.19	n/a
October 3, 2012	346,469	2.19	2.19	n/a
December 13, 2012	79,664	3.54	3.54	n/a
January 25, 2013	1,212,983	3.54	3.54	\$ 5.13(1)
February 14, 2013	13,333	3.54	3.54	5.13(1)
April 18, 2013	20,999	6.30	6.30	11.73(1)

(1) The fair value of common stock at the grant date was adjusted in connection with a retrospective fair value assessment for financial reporting purposes, as described below.

Since our initial public offering, the exercise price per share of all option grants has been set at the closing price of our common stock on The NASDAQ Global Market on the applicable date of grant, which we believe represents the fair value of our common stock.

Determination of the Fair Value of Common Stock on Grant Dates. Prior to our initial public offering, we were a private company with no active public market for our common stock. Therefore, we periodically determined for financial reporting purposes the estimated per share fair value of our common stock at various dates using contemporaneous valuations performed in accordance with the guidance outlined in the American Institute of Certified Public Accountants Practice Aid, Valuation of Privately-Held Company Equity Securities Issued as Compensation, also known as the Practice Aid. We performed these contemporaneous valuations as of April 30, 2012, November 30, 2012, February 28, 2013, April 18, 2013 and April 30, 2013. In conducting the contemporaneous valuations, we considered all objective and subjective factors that we believed to be relevant for each valuation conducted, including our best estimate of our business condition, prospects and operating performance at each valuation date. Within the contemporaneous valuations performed, a range of factors, assumptions and methodologies were used. The significant factors included:

the prices of our preferred stock sold to or exchanged between outside investors in arm s length transactions, and the rights, preferences and privileges of our preferred stock as compared to those of our common stock, including the liquidation preferences of our preferred stock:

our results of operations, financial position and the status of research and development efforts;

the composition of, and changes to, our management team and board of directors;

the lack of liquidity of our common stock as a private company;

our stage of development and business strategy and the material risks related to our business and industry;

the achievement of enterprise milestones, including entering into collaboration and license agreements;

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the valuation of publicly traded companies in the life sciences and biotechnology sectors, as well as recently completed mergers and acquisitions of peer companies;

any external market conditions affecting the life sciences and biotechnology industry sectors;

the likelihood of achieving a liquidity event for the holders of our common stock and stock options, such as an initial public offering, or IPO, or a sale of our company, given prevailing market conditions;

the state of the IPO market for similarly situated privately held biotechnology companies; and

any recent contemporaneous valuations prepared in accordance with methodologies outlined in the Practice Aid.

The dates of our contemporaneous valuations did not always coincide with the dates of our stock-based compensation grants. In determining the exercise prices of the options set forth in the table above, our board of directors considered, among other things, the most recent contemporaneous valuations of our common stock and our assessment of additional objective and subjective factors we believed were relevant as of the grant date. The additional factors considered when determining any changes in fair value between the most recent contemporaneous valuation and the grant dates included, when available, the prices paid in recent transactions involving our equity securities, as well as our stage of development, our operating and financial performance and current business conditions.

There were significant judgments and estimates inherent in the determination of fair value of our common stock, including the contemporaneous valuations. These judgments and estimates included assumptions regarding our future operating performance, the time to completing an IPO or other liquidity event and the determinations of the appropriate valuation methods. If we had made different assumptions, our stock-based compensation expense, net loss and net loss per common share could have been significantly different.

Since our initial public offering, we have determined the fair value of our common stock based on the closing price of our common stock on The NASDAQ Global Market on the applicable date of such grant.

Common Stock Valuation Methodologies. Prior to our initial public offering, our contemporaneous valuations were prepared in accordance with the guidelines in the Practice Aid, which prescribes several valuation approaches for setting the value of an enterprise, such as the cost, market and income approaches, and various methodologies for allocating the value of an enterprise to its common stock. We generally used the market approach, in particular the guideline company and precedent transaction methodologies, based on inputs from comparable public companies equity valuations and comparable acquisition transactions, to estimate the enterprise value of our company.

Methods Used to Allocate Our Enterprise Value to Classes of Securities. In accordance with the Practice Aid, we considered the various methods for allocating the enterprise value across our classes and series of capital stock to determine the fair value of our common stock at each valuation date. The methods we considered consisted of the following:

*Current Value Method.* Under the current value method, once the fair value of the enterprise is established, the value is allocated to the various series of preferred and common stock based on their respective seniority, liquidation preferences or conversion values, whichever is greatest.

*Option Pricing Method.* Under the option pricing method, shares are valued by creating a series of call options with exercise prices based on the liquidation preferences and conversion terms of each equity class. The values of the preferred and common stock are inferred by analyzing these options.

*Probability-Weighted Expected Return Method, or PWERM.* The PWERM is a scenario-based analysis that estimates the value per share based on the probability-weighted present value of expected future investment returns, considering each of the possible outcomes available to us, as well as the economic and control rights of each share class.

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For each of the contemporaneous valuations described below, we used the PWERM to determine the estimated fair value of our common stock.

#### April 2012 Valuation

In April 2012, we entered into our collaboration with Celgene and, in light of the significance of that transaction, we deemed it appropriate to obtain a contemporaneous valuation of our common stock as of April 30, 2012. This valuation contemplated the collaboration with Celgene as well as the likelihood of achieving effectiveness of our investigational new drug application, or IND, for EPZ-5676, which later occurred in July 2012. The April 2012 valuation utilized the PWERM to determine the equity value of the company, using the following probability-weighted scenarios:

Exit Scenario	Weighting
Merger or Sale	20%
IPO	30
Liquidation	10
No Value to Common	40
Total	100%

For each future exit scenario, the rights and preferences of each class of our capital stock were considered in order to determine the appropriate allocation of our future exit value to the shares of common stock. In the merger or sale scenario, we contemplated estimated high and low sale prices resulting from possible future outcomes of research and development for our two most advanced product candidates, EPZ-5676 and EPZ-6438, with merger or sale exit values estimated based on comparable sales of guideline companies. In this valuation, we incorporated an IPO scenario, as this exit was then considered a possibility based on our stage of development. In the IPO scenario, we contemplated an estimated future public offering of our common stock, with the IPO exit value estimated based on comparable transactions of guideline companies. In the liquidation scenario, we contemplated both early and late liquidations resulting from possible future outcomes of our efforts to raise additional funding, with liquidation exit values estimated based on projected remaining assets at the time of liquidation. In the no value to common scenario, we contemplated circumstances resulting from a possible future inability to raise additional funding, with the no value to common exit value estimated based on projections that holders of our preferred stock would recover their original investment through a sale of the company s assets but no value remained available for common stock holders. At the time of the April 2012 valuation, we considered the possibility of a potential IPO scenario. However, there continued to be a reasonable likelihood that proof-of-concept would not be achieved for either EPZ-5676 or EPZ-6438 or that we would be unable to raise additional capital in order to sustain operations. Accordingly, we assigned a 40% probability to the no value to common scenario. For this valuation, we discounted our common stock value under each of the scenarios using an assumed cost of capital of 19% and applied a discount for lack of marketability, or DLOM, of 40%. The cost of capital utilized for the PWERM scenarios is a risk-adjusted cost of capital, indicating that at the time of an exit event, the risk associated with a company is anticipated to decrease commensurate with its progress toward commercialization. The cost of capital of 19% was calculated based on an industry weighted average cost of capital for newly public biotech companies based on publicly available information. The computations used a size-adjusted capital asset pricing model, or CAPM, assuming a risk-free rate of 4.0%, a market risk premium of 5.2% and a size adjustment of 3.1%. Betas were sourced by selecting all companies in the industry segment with a market capitalization less than or equal to \$250.0 million. We concluded that our common stock had a fair value of \$2.19 per share as of April 30, 2012.

#### Stock Option Grants in June 2012 and October 2012

Our board of directors granted options to purchase common stock on June 7, 2012 and October 3, 2012, with each option having an exercise price of \$2.19 per share. In establishing this exercise price, our board of

directors considered input from management, including the valuation we conducted of our common stock as of April 30, 2012, as well as the objective and subjective factors outlined above. At each such date, our board of directors considered the events and circumstances most likely to affect the value of our common stock that occurred between April 2012 and the grant date, including achieving effectiveness of our IND application for EPZ-5676 in July 2012. Our board of directors determined that, other than achieving IND effectiveness for EPZ-5676, which had been contemplated in the assumptions used for the April 2012 valuation, there were no other events that occurred between April 2012 and October 2012 that were indicative of a significant change in the fair value of our common stock since April 2012. Moreover, between the April 2012 valuation and the date of the October 2012 awards, we did not believe that an IPO had become more likely. This belief was based in part on the assessment that we should not pursue an IPO until we had commenced our Phase 1 clinical trial of EPZ-5676 and obtained data for an MLL-r patient treated in the EPZ-5676 clinical trial. In addition, during the period from April 2012 to the date of the October 2012 awards, overall market conditions, and particularly the market for biopharmaceutical initial public offerings, were not promising. Based on these factors, our board of directors determined that the fair value of our common stock at June 7, 2012 and October 3, 2012 was \$2.19 per share.

### November 2012 Valuation

In November 2012, we enrolled our first patient in our Phase 1 clinical trial of EPZ-5676, and we filed a clinical trial application, or CTA, with respect to a clinical trial for EPZ-6438. We determined that these events demonstrated our ability to continue to execute successfully against our development plans and, therefore, had increased the possibility of an IPO scenario. Accordingly, we deemed it appropriate to obtain a contemporaneous valuation of our common stock as of November 30, 2012. The November 2012 valuation utilized the same methodology as was used in the prior valuations, except that the probability-weighted scenarios were updated as follows:

Exit Scenario	Weighting
Merger or Sale	10%
IPO Early (mid-2013)	30
IPO Late (mid-2014)	15
Liquidation	10
No Value to Common	35
Total	100%

In this valuation, we increased the probability assigned to an IPO scenario, as this exit scenario was becoming more likely based on our stage of development and our execution against our plan. In addition, we bifurcated the IPO scenario into an early IPO scenario, which assumed an IPO in mid-2013, and a late IPO scenario, which assumed an IPO in mid-2014. Based on the continued execution of our clinical and preclinical development plans for EPZ-5676 and EPZ-6438, we reduced the probability assigned to the no value to common scenario from 40% to 35%. For this valuation, we discounted the common stock value under each of the scenarios using an assumed cost of capital of 19% and a DLOM of 30%. We changed the DLOM from 40% to 30% because we believed that we were moving closer to a potential exit event. Using this methodology, we concluded that our common stock had a fair value of \$3.54 per share as of November 30, 2012.

#### Stock Option Grants in December 2012

Our board of directors granted options to purchase common stock on December 13, 2012, with each option having an exercise price of \$3.54 per share. In establishing this exercise price, our board of directors considered input from management, including the valuation we conducted of our common stock as of November 30, 2012, as well as the objective and subjective factors outlined above. Our board of directors considered the events and circumstances that occurred between November 30, 2012 and December 13, 2012 that would likely impact the previously determined exit scenarios. Our board of directors recognized that the enrollment of the first patient in

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our Phase 1 clinical trial of EPZ-5676 and the filing of the CTA with respect to a clinical trial of EPZ-6438 demonstrated our ability to continue to execute successfully against our development plans, which increased the possibility of an IPO, as reflected in the November 2012 valuation. However, our board of directors also considered our expectations that we would not obtain data for an MLL-r patient treated in the EPZ-5676 clinical trial until 2013 and that the CTA for EPZ-6438 would not be effective until 2013, as well as overall conditions in the capital markets and the market for biopharmaceutical initial public offerings in December 2012, including the generally depressed stock prices for biopharmaceutical companies and the valuations for biopharmaceutical companies that had recently gone public. In particular, the NASDAQ Biotechnology Index declined by 5% from the beginning of October 2012 through the end of November 2012. Although the board of directors considered in December 2012 whether it was appropriate for us to commence the process for a confidential submission of a draft registration statement for an IPO in December 2012, in light of the market conditions and the potential valuation of our company absent patient data supporting our scientific hypothesis for HMT inhibitors, the board of directors determined that it was too early to pursue an IPO. Our board of directors also determined that no events had occurred between November 2012 and December 13, 2012 that were indicative of a significant change in the fair value of our common stock since November 30, 2012. Therefore, our board of directors determined that the fair value of our common stock as of December 13, 2012 was \$3.54 per share.

### Stock Option Grants in January 2013 and February 2013

Our board of directors granted options to purchase common stock on January 25, 2013 and February 14, 2013, with each option having an exercise price of \$3.54 per share.

#### Retrospective Valuation January 2013 and February 2013

In late January 2013, based on the board of directors review of overall market conditions, the improving market for biopharmaceutical initial public offerings and the progress of the EPZ-5676 clinical trial, including the expectation that data with respect to the first MLL-r patient dosed in our clinical trial of EPZ-5676 would become available in the near term, our board of directors determined that a significant shift was occurring with respect to the valuation we could achieve in an IPO and authorized the preparation and submission of a confidential draft registration statement for an IPO. Additionally, in January 2013 our CTA for a Phase 1/2 clinical trial in France for EPZ-6438 became effective. We selected underwriters and held an organizational meeting in mid-February 2013. In February 2013 we continued the dose escalation phase of our Phase 1 clinical trial for EPZ-5676 and received data for the MLL-r patient dosed in this clinical trial which indicated that we were closer to achieving proof-of-concept for one of our HMT inhibitors. We believe these events increased the probability of an early IPO scenario and therefore we performed a valuation for our common stock as of February 28, 2013. The February 2013 retrospective valuation utilized the PWERM to determine the equity value of the company, using the following probability-weighted scenarios:

Exit Scenario	Weighting
Merger or Sale	10%
IPO Early (mid-2013)	50
IPO Late (mid-2014)	10
Liquidation	5
No Value to Common	25
Total	100%

In this valuation, we increased the probability of an early IPO to 50%, reflecting our progress in preparing a confidential draft registration statement, the advancement of our Phase 1 clinical trial for EPZ-5676 and our other development programs and improving market conditions. Based on the continued execution of our clinical and preclinical development plans for EPZ-5676 and EPZ-6438, we reduced the probability

assigned to the no value

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to common scenario from 35% to 25%. For this valuation, we discounted the common stock using an assumed cost of capital of 19% and a DLOM of 20%. We reduced the DLOM from 30% to 20% because we believed that we were moving closer to a potential exit event. However, at the time this retrospective valuation was undertaken, our underwriters had not yet communicated to us a definitive proposed valuation and our board of directors had not authorized the filing of a public registration statement. Based on these factors, we concluded that our common stock had a fair value of \$5.13 per share as of February 28, 2013. For financial reporting purposes, this value has been applied retrospectively to our January 25, 2013 and February 14, 2013 option grants.

#### April 2013 Valuation

Overall market conditions and the market for biopharmaceutical initial public offerings continued to improve during 2013 and on March 22, 2013, we submitted to the SEC a confidential draft registration statement for an IPO. We believe that this submission increased the probability of an early IPO scenario, and therefore we performed a valuation of our common stock as of April 18, 2013. The April 2013 valuation utilized the same methodology as was used in the prior valuations, except that the probability-weighted scenarios were updated as follows:

Exit Scenario	Weighting
Merger or Sale	10%
IPO Early (mid-2013)	65
IPO Late (mid-2014)	5
Liquidation	5
No Value to Common	15
Total	100%

In this valuation, we increased the probability of an early IPO to 65%, reflecting the submission of the confidential draft registration statement and the continuing improvement in overall market conditions and the market for biopharmaceutical initial public offerings. We reduced the probability assigned to the no value to common scenario from 25% to 15% as the likelihood of an early IPO was increasing. For this valuation, we discounted the common stock value under each of the scenarios using an assumed cost of capital of 19% and a DLOM of 15%. We reduced the DLOM from 20% to 15% because we believed that we were moving closer to a potential exit event. Additionally, at the time this valuation was undertaken, our underwriters had not yet communicated to us a definitive proposed valuation. Using this methodology, we concluded that our common stock had a fair value of \$6.30 per share as of April 18, 2013.

### Stock Option Grants in April 2013

Our board of directors granted options to purchase common stock on April 18, 2013, with each option having an exercise price of \$6.30 per share. In establishing this exercise price, our board of directors considered input from management, including the valuation we conducted of our common stock as of April 18, 2013. Based on these factors, our board of directors determined that the fair value of our common stock as of April 18, 2013 was \$6.30 per share.

Retrospective Valuation April 2013

In late April 2013, after the filing of a public registration statement, our underwriters provided us with their perceptions of increased optimism regarding overall market conditions and the market for initial public offerings, particularly for biopharmaceutical companies, and reiterated their prior expectation that we would be able to complete our initial public offering by the end of the second quarter of 2013. For example, market data indicated that in the first four months of 2013, the Nasdaq Biotechnology Index increased approximately 26% and

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increased over 15% between March 1, 2013 and April 30, 2013. As a result, since our organizational meeting for our initial public offering on February 19, 2013, valuations for companies comparable to us had increased significantly. Additionally, our underwriters confirmed that the market for oncology-focused biopharmaceutical companies was particularly strong. In light of this information, we accelerated preparations for a road show. Therefore, we performed a valuation of our common stock as of April 30, 2013. The April 2013 retrospective valuation utilized the PWERM to determine the equity value of the company, using the following probability-weighted scenarios:

Exit Scenario	Weighting
IPO Early (mid-2013)	90%
No Value to Common	10
Total	100%

In this valuation, we increased the probability of an early IPO to 90% and correspondingly reduced the probability of the no value to common scenario to 10%, reflecting current market conditions and our progress in preparing to launch a road show for this offering. For this valuation, we discounted the common stock using an assumed cost of capital of 19% and a DLOM of 5%. We reduced the DLOM from 15% to 5% because we believed that we were moving closer to the launch of this offering, which could lead to a potential exit event. Based on these factors, we concluded that our common stock had a fair value of \$11.73 per share as of April 30, 2013. For financial reporting purposes, this value has been applied retrospectively to our April 18, 2013 option grants.

#### Recent Accounting Pronouncements

In July 2013, the Financial Accounting Standards Board issued Accounting Standards Update, or ASU, No. 2013-11, *Presentation of an Unrecognized Tax Benefit When a Net Operating Loss Carryforward, a Similar Tax Loss, or a Tax Credit Carryforward Exists.* ASU 2013-11 amends Accounting Standards Codification, or ASC, 740, *Income Taxes*, by providing guidance on the financial statement presentation of an unrecognized benefit when a net operating loss carryforward, a similar tax loss, or a tax credit carryforward exists. The ASU does not affect the recognition or measurement of uncertain tax positions under ASC 740. ASU 2013-11 will be effective for us for interim and annual periods beginning after December 15, 2013, with early adoption permitted. We do not expect the adoption of this ASU to have any impact on our consolidated financial statements.

### **Financial Overview**

#### Collaboration Revenue

Our revenue consists of collaboration revenue, including amounts recognized related to upfront payments for licenses or options to obtain licenses in the future, research and development funding and milestone payments earned under collaboration and license agreements with our collaboration partners, including Celgene, Eisai and GSK.

#### Research and Development

Research and development expenses consist of expenses incurred in performing research and development activities, including compensation and benefits for full-time research and development employees, facilities expenses, overhead expenses, clinical trial and related clinical manufacturing expenses, fees paid to CROs and other outside expenses. As we advance our product platform, we are conducting research on several prioritized HMT targets. Our research and development team is organized such that the design, management and evaluation of results of all of our research and development plans is accomplished internally, while some of our research and development activities are executed using our multinational network of CROs. In the early phases of development, our research and development costs are often devoted to expanding our product platform and are

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not necessarily allocable to specific targets. In circumstances where our collaboration and license agreements provide for equally co-funded global development, amounts received from collaboration partners for such co-funding are recorded as a reduction to research and development expense.

Most of our research and development costs have been external costs, which we began tracking on a program-by-program basis in the first quarter of 2010. Our internal research and development costs are primarily compensation expenses for our full-time research and development employees. We do not track internal research and development costs on a program-by-program basis. However, by employing a multinational network of CROs, our employees are able to dedicate significant amounts of their time to the expansion and development of our product platform while managing the research performed by our CROs.

#### General and Administrative

General and administrative expenses consist primarily of salaries and related benefits, including stock-based compensation, related to our executive, finance, intellectual property, business development and support functions. Other general and administrative expenses include allocated facility-related costs not otherwise included in research and development expenses, travel expenses and professional fees for auditing, tax and legal services, including intellectual property-related legal services.

#### Other Income (Expense), Net

Other income (expense), net consists of interest income earned on our cash equivalents, offset by interest and other expense.

## Accretion of Preferred Stock

Our preferred stock automatically converted into common stock upon the closing of our initial public offering in June 2013. Our preferred stock was redeemable beginning in 2017 at its original issue prices per share plus any declared but unpaid dividends upon a specified vote of the preferred stockholders. Accretion of preferred stock reflects the periodic accretion of issuance costs and premiums on each series of preferred stock, where applicable, to their respective redemption values. As a result of the conversion, we do not have any preferred stock outstanding and will not record any additional accretion of preferred stock related to the shares of preferred stock previously issued.

Results of Operations for the Nine Months Ended September 30, 2012 and 2013

#### Collaboration Revenue

The following is a comparison of collaboration revenue for the nine months ended September 30, 2012 and 2013:

		onths End ember 30,			
	2012		2013		
				Decre	ase
			(dollars in m	illions)	
Collaboration revenue	\$ 36.3	\$	32.2	(\$ 4.1)	(11.3%)

During the nine months ended September 30, 2013, collaboration revenue consisted of \$19.2 million recognized from deferred revenue related to upfront payments for licenses, \$6.0 million in milestone revenue and \$7.0 million in research and development funding. This revenue compares to \$23.7 million recognized from deferred revenue related to upfront payments for licenses, \$8.0 million in milestone revenue and \$4.6 million in research and development funding recognized in the nine months ended September 30, 2012.

Collaboration revenue recognized from deferred revenue in the nine months ended September 30, 2013 comprised \$10.8 million under our Celgene agreement, \$1.2 million under our Eisai agreement and \$7.2 million under our GSK agreement, as compared to \$20.3 million under our Celgene agreement and \$1.2 million under our Eisai agreement and \$2.2 million under our GSK agreement in the same period of the prior year. Milestone revenue in the nine months ended September 30, 2013 represents a \$6.0 million clinical development milestone achieved under our Eisai agreement, as compared to a \$4.0 million preclinical research and development milestone achieved under Eisai agreement and \$4.0 million in preclinical research and development milestones achieved under our GSK agreement in the same period of the prior year. Collaboration revenue recognized for research and development services in the nine months ended September 30, 2013 comprised \$5.2 million under our Eisai agreement and \$1.8 million under our GSK agreement, as compared to \$4.1 million under our Eisai agreement and \$0.5 million under our GSK agreement in the same period of the prior year.

### Research and Development

The following is a comparison of research and development expenses for the nine months ended September 30, 2012 and 2013:

		Ionths Entember 30			
	2012		2013		
				Increa	ase
			(dollars in m	illions)	
Research and development	\$ 27.4	\$	41.9	\$ 14.5	52.9%

The following table illustrates the components of our research and development expenses:

	Nine Months Ended September 30,		
	2012		2013
Product Program (Phase as of the latest period end)	(in r	nillions)	
External research and development expenses:			
EPZ-5676 (Phase 1) and related DOT1L programs	\$ 6.5	\$	9.4
EPZ-6438 (Phase 1/2) and related EZH2 programs	2.4		3.1
Discovery and preclinical stage product programs,			
collectively	9.9		16.0
Internal research and development expenses	8.6		13.4
Total research and development expenses	\$ 27.4	\$	41.9

During the nine months ended September 30, 2013, our total research and development expenses increased by \$14.5 million compared to the same period of 2012, primarily due to the expansion of our product platform and the advancement of our research and development on specific targets, principally, DOT1L, EZH2 and the three target programs partnered with GSK. Our internal research and development expenses increased by \$4.8 million in the nine months ended September 30, 2013 compared to the same period of the prior year as the number of our research and development employees grew from 42 employees as of September 30, 2012 to 54 employees as of September 30, 2013. Research and development expenses for EPZ-5676 and related DOT1L programs for the nine months ended September 30, 2013 are net of \$0.7 million of global development co-funding receivable from Celgene.

External research and development spending for DOT1L focused on the advancement of the EPZ-5676 Phase 1 clinical trial, with expenses increasing from \$6.5 million in the nine months ended September 30, 2012 to \$9.4 million in the nine months ended September 30, 2013. External research and development spending for EZH2 focused on the EPZ-6438 Phase 1/2 clinical trial and increased from \$2.4 million in the nine months ended

September 30, 2012 to \$3.1 million in the nine months ended September 30, 2013. External research and development spending for discovery and preclinical stage product programs, including the three target programs partnered with GSK, increased from \$9.9 million in the nine months ended September 30, 2012 to \$16.0 million in the nine months ended September 30, 2013 as we advanced the research and development of these programs.

External research and development spending from January 1, 2010 through September 30, 2013 was \$28.6 million for EPZ-5676 and related DOT1L programs and \$12.0 million for EPZ-6438 and related EZH2 programs. We did not maintain program-specific external cost information prior to January 1, 2010. We expect to continue to increase our research and development expenses as the EPZ-5676 and EPZ-6438 programs continue to progress through clinical testing, as we continue to build our product platform and as we continue to work on our other programs, such as the product candidates being developed under our GSK collaboration. We are solely responsible for all research and development costs for any programs not selected by Celgene and not subject to license under our other collaboration agreements.

#### General and Administrative

The following is a comparison of general and administrative expenses for the nine months ended September 30, 2012 and 2013:

	Nine Month	s Ended Se	eptember		
	2012	,	2013		
				Incr	ease
			(dollars in m	illions)	
General and administrative	\$ 5.2	\$	9.7	\$ 4.5	86.5%

For the nine months ended September 30, 2013, our general and administrative expenses increased compared to the same period of the prior year, primarily related to additional professional fees, insurance and other costs associated with public company operation as well as increased stock-based compensation expense and other costs to support our growing organization.

We expect that general and administrative expenses will increase in the future as we expand our operating activities and incur additional costs associated with being a publicly traded company. These increases will likely include legal, auditing and filing fees, additional insurance premiums, costs associated with maintaining investor relations services and general compliance and consulting expenses.

### Other Income (Expense), Net

The change to other expense, net in the nine months ended September 30, 2013 from other income in the nine months ended September 30, 2012 reflects the recognition of interest expense on a contract termination obligation that we incurred in the second quarter of 2012 and paid in full in the second quarter of 2013.

### Accretion of Preferred Stock

Our preferred stock automatically converted into common stock upon the closing of our initial public offering in June 2013. We recorded \$0.3 million of accretion in the nine months ended September 30, 2012 and \$0.3 million of accretion in the nine months ended September 30, 2013, until the conversion into common stock. As a result of this conversion, as of September 30, 2013, we do not have any preferred stock outstanding and will not record any additional accretion of preferred stock related to the shares of preferred stock previously issued.

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Results of Operations for the Years Ended December 31, 2011 and 2012

#### Collaboration Revenue

The following is a comparison of collaboration revenue for the years ended December 31, 2011 and 2012:

	Year	Ended			
	Decem	iber 31,			
	2011	2011 2012		Increase	
		(dollars	in millions)		
Collaboration revenue	\$ 6.9	\$ 45.2	\$ 38.3	555.1%	

The increase in collaboration revenue in 2012 compared to 2011 was primarily due to the recognition of \$23.9 million of revenue in connection with our collaboration with Celgene, which was entered into in April 2012, the recognition of \$9.7 million of revenue in 2012 in connection with our collaboration with GSK, as compared to none during 2011, and an increase in revenue recognized from our collaboration with Eisai from \$6.6 million in 2011 to \$11.5 million in 2012.

Collaboration revenue recognized under the Celgene agreement during 2012 reflects amounts earned related to:

the delivery of the DOT1L license and the provision of related research services, both prior to and subsequent to IND effectiveness for EPZ-5676 in July 2012; and

the provision of research services related to other potential DOT1L product candidates.

Collaboration revenue recognized under the Eisai agreement reflects amounts earned related to the EZH2 license and research services, including \$4.0 million that we received upon the achievement of a substantive milestone related to the selection of a development candidate in 2012.

Collaboration revenue recognized under the GSK agreement reflects amounts earned for research services related to all three HMT targets licensed by GSK as of July 2012, the end of the target selection term under this agreement, as well as \$4.0 million related to preclinical research and development milestones that were achieved in 2012 after the end of the selection term. Prior to the end of the selection term, we did not recognize any collaboration revenue under this agreement, as none of the delivered elements were deemed to have standalone value apart from the undelivered elements of the arrangement.

#### Research and Development

The following is a comparison of research and development expenses for the years ended December 31, 2011 and 2012:

	Year Ende	d Decen	nber 31,		
	2011		2012	Increa	ise
		(	dollars in 1	millions)	
Research and development	\$ 22.9	\$	38.5	\$ 15.6	68.1%

The following table illustrates the components of our research and development expenses:

Product Program (Phase as of the latest period end)	Year Ended December 31, 2011 2012 (in millions)					
	(In m	illions)				
External research and development expenses:						
EPZ-5676 (Phase 1) and related DOT1L programs	\$ 5.8	\$	8.0			
EPZ-6438 (Preclinical) and related EZH2 programs	3.8		3.5			
Discovery and preclinical stage product programs,						
collectively	5.3		12.9			
Internal research and development expenses	8.0		14.1			
Total research and development expenses	\$ 22.9	\$	38.5			

During the year ended December 31, 2012, our total research and development expenses increased by \$15.6 million, or 68.1%, compared to the prior year, primarily due to the expansion of our product platform and the advancement of our research and development on specific targets, principally DOT1L and EZH2. Our internal research and development expenses increased by \$6.1 million in 2012 as compared to 2011 as the number of our research and development employees grew from 33 employees as of December 31, 2011 to 47 employees as of December 31, 2012.

External research and development spending for DOT1L focused on the advancement of EPZ-5676, with expenses increasing from \$5.8 million for the year ended December 31, 2011 to \$8.0 million for the year ended December 31, 2012, principally due to spending on preclinical studies. External research and development spending for EZH2 focused on progressing our EPZ-6438 product candidate into preclinical phases and decreased slightly, from \$3.8 million in 2011 to \$3.5 million in 2012, as some phases of development shifted to Eisai. External research and development spending for research stage product programs increased from \$5.3 million for the year ended December 31, 2011 to \$12.9 million for the year ended December 31, 2012 as we advanced the research and development of these programs.

External research and development spending from January 1, 2010 through December 31, 2012 was \$19.2 million for EPZ-5676 and related DOT1L programs and \$8.9 million for EPZ-6438 and related EZH2 programs. We did not maintain program-specific external cost information prior to January 1, 2010.

#### General and Administrative

The following is a comparison of general and administrative expenses for the years ended December 31, 2011 and 2012:

	Year Ended December 31,					
	2011	2012	Incr	ease		
		(dollars i	n millions)			
General and administrative	\$ 5.0	\$ 7.5	\$ 2.5	50.0%		

For the year ended December 31, 2012, our general and administrative expenses increased by \$2.5 million, or 50.0%, primarily related to increased compensation expenses, as we grew from nine general and administrative employees as of December 31, 2011 to 15 general and administrative employees as of December 31, 2012, and increased legal expenses for the maintenance, expansion and protection of our intellectual property portfolio.

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#### Other Income, Net

The increase in other income, net to \$0.1 million for 2012 from \$10,000 for 2011 reflects the increase in our interest-bearing cash equivalents, which resulted in higher interest income year-over-year.

#### Income Tax Expense

Income tax expense for the year ended December 31, 2012 consisted solely of current state tax expense, as we were able to utilize federal net operating loss carryforwards to fully offset federal taxable income for the year. For all years prior to 2012, we incurred taxable losses and accumulated significant federal and state net operating losses as well as research and development tax credits. Our ability to use our operating loss carryforwards and tax credits to offset future taxable income may become subject to restrictions under Section 382 of the United States Internal Revenue Code.

### Accretion of Preferred Stock

We recorded \$45,000 of accretion for the year ended December 31, 2011 and \$0.5 million of accretion for the year ended December 31, 2012.

## **Quarterly Results of Operations Data**

The following tables set forth our unaudited quarterly consolidated statements of operations data for each of the eleven quarters in the period from January 1, 2011 through September 30, 2013. This information is derived from our unaudited interim financial statements. We have prepared the quarterly data on the same basis as our audited consolidated financial statements. In the opinion of management, the quarterly data contains all adjustments which are necessary to present fairly our financial position and results of operations for such dates. Such adjustments are of a normal and recurring nature. The results of historical periods and any current quarterly period are not necessarily indicative of the results of operations for a full year or any future period. The information set forth below should be read in conjunction with our consolidated financial statements and notes thereto included elsewhere in this prospectus.

Three Months Ended
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	March 31, 2011	June 30, S 2011	September 3	December 31 2011	,March 31, 2012	June 30, S 2012	September 30) 2012	ecember 31 2012	,March 31, 2013	June 30, 8 2013	September 30, 2013
	2011	2011	2011	2011			er share data)		2010	2010	2010
Collaboration revenue	\$	\$ 2,028	\$ 2,444	\$ 2,472	\$ 5,654	\$ 15,342	\$ 15,331	\$ 8,895	\$ 8,882	\$ 14,839	\$ 8,444
Operating expenses:											
Research and											
development	4,211	5,385	5,878	7,437	9,228	8,899	9,258	11,097	13,361	13,937	14,584
General and											
administrative	1,426	1,173	1,265	1,136	1,907	1,638	1,630	2,333	2,998	3,079	3,587
Total operating											
expenses	5,637	6,558	7,143	8,573	11,135	10,537	10,888	13,430	16,359	17,016	18,171

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(Loss) income from											
operations	(5,637)	(4,530)	(4,699)	(6,101)	(5,481)	4,805	4,443	(4,535)	(7,477)	(2,177)	(9,727)
Other income											
(expense):											
Interest income	7	11	2	13	13	51	44	. 37	19	15	20
Other income											
(expense), net			(23)				(39	(39)	(39)	(50)	3
Other income											
(expense), net	7	11	(21)	13	13	51	5	(2)	(20)	(35)	23
(Loss) income before											
taxes	(5,630)	(4,519)	(4,720)	(6,088)	(5,468)	4,856	4,448	(4,537)	(7,497)	(2,212)	(9,704)
Income tax expense								1			
Net (loss) income	\$ (5,630)	\$ (4,519)	\$ (4,720)	\$ (6,088)	\$ (5,468)	\$ 4,856	\$ 4,448	\$ (4,538)	\$ (7,497)	\$ (2,212)	\$ (9,704)

#### Three Months Ended

	March 31,	June 30, Se	eptember 3	December 31	March 31,	June 30S	eptember 3	<b>D</b> ecember 31	March 31,	June 30, Se	eptember 30,
	2011	2011	2011	2011	2012	2012	2012	2012	2013	2013	2013
				(i	n thousands	, except p	er share dat	ta)			
Less: accretion of redeemable convertible preferred stock to											
redemption value	11	11	11	12	11	156	159	160	157	107	
Less: income allocable to participating securities						4,354	3,972				
(Loss) income allocable to common stockholders basic Undistributed income	(5,641)	(4,530)	(4,731)	(6,100)	(5,479)	346	317	(4,698)	(7,654)	(2,319)	(9,704)
re-allocated to common stockholders						236	229				
(Loss) income allocable to common stockholders diluted	\$ (5,641)	\$ (4,530)	\$ (4,731)	\$ (6,100)	\$ (5,479)	\$ 582	\$ 546	\$ (4,698)	\$ (7,654)	\$ (2,319)	\$ (9,704)
(Loss) earnings per share allocable to common stockholders:											
Basic	\$ (4.47)	\$ (3.44)	\$ (3.04)	\$ (3.81)	\$ (3.38)	\$ 0.21	\$ 0.19	\$ (2.81)	\$ (4.27)	\$ (0.25)	\$ (0.34)
Diluted Weighted average shares outstanding:	\$ (4.47)	\$ (3.44)	\$ (3.04)	\$ (3.81)	\$ (3.38)	\$ 0.20	\$ 0.18	\$ (2.81)	\$ (4.27)	\$ (0.25)	\$ (0.34)
Basic	1,262	1,315	1,555	1,600	1,623	1,636	1,651	1,670	1,791	9,146	28,406
Diluted	1,262	1,315	1,555	1,600	1,623	2,913	3,017	1,670	1,791	9,146	28,406

## **Liquidity and Capital Resources**

On June 5, 2013, we completed an initial public offering of our common stock, which resulted in the sale of 5,913,300 shares, including all additional shares available to cover over-allotments, at a price of \$15.00 per share. We received net proceeds before expenses from the IPO of \$82.5 million after deducting underwriting discounts and commissions paid by us. In connection with the closing of the IPO, all of our outstanding preferred stock automatically converted to common stock at a one-for-three ratio as of June 5, 2013.

Since our inception and through September 30, 2013, we have raised an aggregate of \$291.8 million to fund our operations, of which \$133.3 million was through our collaboration agreements, \$82.5 million was from the sale of our common stock in our initial public offering and \$76.0 million was from the sale of our preferred stock. In addition, as of September 30, 2013, we were entitled to receive \$2.2 million for research and development services provided in the third quarter of 2013. As of September 30, 2013, we had \$139.6 million in cash and cash equivalents.

In addition to our existing cash and cash equivalents, we receive research and development funding and are eligible to earn a significant amount of option exercise and milestone payments under our collaboration agreements. Our ability to earn these payments and the timing of earning these payments is dependent upon the outcome of our research and development activities and is uncertain at this time. Our rights to payments under our collaboration agreements are our only committed external source of funds.

## Funding Requirements

Our primary uses of capital are, and we expect will continue to be, compensation and related expenses, third party clinical research and development services, laboratory and related supplies, clinical costs, legal and other regulatory expenses and general overhead costs. We believe our multinational network of CROs provides us with flexibility in managing our spending and limits our cost commitments at any point in time.

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Because our product candidates are in various stages of clinical and preclinical development and the outcome of these efforts is uncertain, we cannot estimate the actual amounts necessary to successfully complete the development and commercialization of our product candidates or whether, or when, we may achieve profitability. Until such time, if ever, as we can generate substantial product revenues, we expect to finance our cash needs through a combination of equity or debt financings and collaboration arrangements. Except for any obligations of our collaborators to reimburse us for research and development expenses, including global development co-funding provisions of our collaboration agreements, or to make option exercise, milestone or royalty payments under our agreements with them, upon completion of this offering, we will not have any committed external sources of liquidity. To the extent that we raise additional capital through the future sale of equity or debt, the ownership interest of our stockholders will be diluted, and the terms of these securities may include liquidation or other preferences that adversely affect the rights of our existing common stockholders. Our ability to enter into collaboration agreements for additional HMT targets is significantly limited until the end of the option period under the Celgene agreement and may continue to be limited after the end of the option period depending on how many other HMT targets Celgene elects to license, if any. If we raise additional funds through collaboration arrangements in the future, we may have to relinquish valuable rights to our technologies, future revenue streams or product candidates or grant licenses on terms that may not be favorable to us. If we are unable to raise any additional funds that may be needed through equity or debt financings when needed, we may be required to delay, limit, reduce or terminate our product development or future commercialization efforts or grant rights to develop and market product candidates that we woul

#### Outlook

Based on our research and development plans and our timing expectations related to the progress of our programs, we expect that the net proceeds to us from this offering, together with our existing cash and cash equivalents as of September 30, 2013, accounts receivable for milestones earned in December 2013 and research funding that we expect to receive under our existing collaborations, will enable us to fund our operating expenses and capital expenditure requirements until at least mid-2016, without giving effect to any potential option exercise fees or milestone payments we may receive under our collaboration agreements. Prior to such time, we expect to complete four ongoing and planned proof-of-concept trials in five genetically defined cancer patient groups: MLL-r adult patients, MLL-PTD adult patients, MLL-r pediatric patients, non-Hodgkin lymphoma patients with EZH2 point mutations and synovial sarcoma patients. We have based these expectations on assumptions that may prove to be wrong, particularly as the process of testing drug candidates in clinical trials is costly and the timing of progress in these trials is uncertain. As a result, we could use our capital resources sooner than we expect.

#### Cash Flows

The following is a summary of cash flows for the years ended December 31, 2011 and 2012 and the nine months ended September 30, 2012 and 2013:

	Year Ended	December 31,	Nine Months Ended September 31				
	2011 2012		2012	2013			
		(in millions)					
Net cash provided by (used in)							
operating activities	\$ 10.0	\$ 44.2	\$ 48.4	\$ (38.0)			
Net cash used in investing activities	(0.9)	(1.4)	(0.2)	(0.2)			
Net cash provided by financing							
activities	19.1	21.9	21.9	79.9			

Net Cash Provided by (Used in) Operating Activities

Net cash provided by operating activities of \$48.4 million during the nine months ended September 30, 2012 compared to net cash used in operating activities of \$38.0 million during the nine months ended

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September 30, 2013. The change from net cash provided by operating activities to net cash used in operating activities reflects the \$68.0 million received from Celgene and allocated to our collaboration agreement in April 2012, as well as increased spending in 2013.

Net cash provided by operating activities was \$10.0 million for the year ended December 31, 2011 compared to \$44.2 million for the year ended December 31, 2012. The increase in cash from operating activities was driven by an increase in cash from collaborations, primarily due to the execution of the Celgene agreement in 2012, for which we received an upfront payment of \$68.0 million, partially offset by an increase in operating expenses.

#### Net Cash Used in Investing Activities

Net cash used in investing activities relates to the purchase of property and equipment. The increase in property and equipment purchases in 2012 compared to 2011 consisted primarily of purchases of laboratory equipment, due to the growth of our research and development activities, and office furniture and equipment, related to our move to a larger office and laboratory facility in November 2012.

#### Net Cash Provided by Financing Activities

Net cash provided by financing activities of \$21.9 million during the nine months ended September 30, 2012 primarily reflects net cash received from the our sale of series C preferred stock to an affiliate of Celgene in April 2012, whereas net cash provided by financing activities of \$79.9 million during the nine months ended September 30, 2013 primarily reflects cash received from our initial public offering.

Net cash provided by financing activities during the years ended December 31, 2011 and 2012 primarily related to the sale of preferred stock in both years. In September 2011, we sold 18.1 million shares of series B preferred stock to our existing investors for net proceeds of \$19.0 million. In April 2012, we sold 9.8 million shares of series C preferred stock to an affiliate of Celgene for proceeds of \$25.0 million, of which \$3.0 million was considered to be a premium and was allocated to the deliverables under the collaboration agreement, resulting in \$22.0 million being allocated to the series C preferred stock.

### **Contractual Obligations and Contingent Liabilities**

The following summarizes our significant contractual obligations as of September 30, 2013:

Contractual Obligations	Total	Less than 1 Year	1 to 3 Years (in thousands)	3 to 5 Years	More than 5 Years
Operating leases	\$ 11,891	\$ 3,215	\$ 5,476	\$ 3,200	\$
Research and development contract obligations	5,508	1,558	3,639	311	
Total obligations	\$ 17,399	\$ 4,773	\$ 9,115	\$ 3,511	\$

*Operating Leases.* Represents future minimum lease payments under non-cancelable operating leases in effect as of September 30, 2013, including the remaining payments under our operating lease for our current office and laboratory facility in Cambridge, Massachusetts, which was amended in September 2013 to include additional office space, and the remaining lease payments for our former facility in Cambridge, Massachusetts. In November 2013, we entered into a sub-lease for our former facility. The future minimum lease payments included in this table do not reflect the \$0.5 million of sublease rental income that we expect to receive through 2014 under this non-cancelable sublease. The minimum lease payments above do not include common area maintenance charges or real estate taxes.

**Research and Development Contract Obligations.** Represents obligations by us to make payments under long-term research and development contracts.

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The contractual obligations table does not include any potential future milestone or royalty payments we may be required to make under our license agreement with the University of North Carolina, under which we were granted an exclusive worldwide license to specified patent rights and a non-exclusive worldwide license to specified know-how and biological materials, or any potential future milestone or royalty payments we may be required to make under a non-exclusive license to a patent related to an excipient in the formulation of a therapeutic product candidate due to the uncertainty of the occurrence of the events requiring payment under that agreement. The table also excludes potential future payments we may be required to make if we elect to opt in to the co-development, co-commercialization and profit share arrangement provided for under our collaboration with Eisai, including our share of potential future milestone payments due under the Roche companion diagnostics development agreement.

#### **Off-Balance Sheet Arrangements**

We did not have during the periods presented, and we do not currently have, any off-balance sheet arrangements, as defined under Securities and Exchange Commission rules.

#### JOBS Act

In April 2012, the Jumpstart Our Business Startups Act of 2012, or the JOBS Act, was enacted. Section 107 of the JOBS Act provides that an emerging growth company can take advantage of an extended transition period for complying with new or revised accounting standards. Thus, an emerging growth company can delay the adoption of certain accounting standards until those standards would otherwise apply to private companies. We have irrevocably elected not to avail ourselves of this extended transition period, and, as a result, we will adopt new or revised accounting standards on the relevant dates on which adoption of such standards is required for other public companies.

#### Quantitative and Qualitative Disclosures about Market Risk

The market risk inherent in our financial instruments and in our financial position represents the potential loss arising from adverse changes in interest rates. As of September 30, 2013, we had cash equivalents of \$121.4 million consisting of interest-bearing money market accounts and prime money market funds. Our primary exposure to market risk is interest rate sensitivity, which is affected by changes in the general level of U.S. interest rates. Due to the short-term maturities of our cash equivalents and the low risk profile of our investments, an immediate 100 basis point change in interest rates as of September 30, 2013 would not have a material effect on the fair market value of our cash equivalents.

We contract with CROs and contract manufacturers internationally. Transactions with these providers are predominantly settled in U.S. dollars and, therefore, we believe that we have only minimal exposure to foreign currency exchange risks. We do not hedge against foreign currency risks.

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#### BUSINESS

#### Overview

We are a clinical stage biopharmaceutical company that discovers, develops and plans to commercialize innovative personalized therapeutics for patients with genetically defined cancers. We have built a proprietary product platform that we use to create small molecule inhibitors of a 96-member class of enzymes known as histone methyltransferases, or HMTs. HMTs are part of the system of gene regulation, referred to as epigenetics, that controls gene expression. Genetic alterations can result in changes to the activity of HMTs, making them oncogenic. These altered HMTs are referred to as oncogenes. The HMT target class has many potential oncogenes and, we believe, presents the opportunity to create, develop and commercialize multiple personalized therapeutics.

Our therapeutic strategy is to treat the underlying causes of genetically defined cancers by blocking the incorrect activity of oncogenic HMTs. HMTs regulate gene expression by adding marks, called methyl groups, to specific locations on the proteins of human chromosomes, or histones, a process known as methylation. Oncogenic HMTs inappropriately mark these locations. As a result, the gene expression necessary for healthy, normally functioning cells is altered, thereby causing disease. Oncogenic HMTs drive multiple types of cancer, including hematological cancers and solid tumors.

In 2011, our scientists defined the 96-member HMT target class, which is referred to as the HMTome. Previously, specific HMTs were known, but a comprehensive identification of the entire target class did not exist. We subsequently analyzed cancer genome databases to enable us to prioritize 20 of these HMTs for our drug discovery activities based on the potential oncogenic role of these HMTs, the clinical need of patients with the associated genetically defined cancers and the possible clinical development and regulatory pathway for related inhibitors.

The clinical development plan for each of our therapeutic product candidates is directed towards patients with a particular genetically defined cancer. For many of our therapeutic product candidates, we plan to develop a companion diagnostic for the identification of patients with the genetically defined cancers that we seek to treat with our therapeutic product candidates. Because we are tailoring our personalized therapeutics for specific, identifiable patient populations with genetically defined cancers, we believe that many of our products may qualify for orphan drug designation in the United States, the European Union and other regions. In August 2013, we were granted orphan drug designation for EPZ-5676 for the treatment of acute myeloid leukemia, or AML, and acute lymphoblastic leukemia, or ALL, by the United States Food and Drug Administration, or FDA, and, in January 2014, the European Commission granted orphan drug designation for EPZ-5676 for the treatment of AML and ALL.

We currently have two HMT inhibitors in clinical development for the treatment of patients with genetically defined cancers and believe we are the first company to conduct a clinical trial of an HMT inhibitor. We are conducting a Phase 1 clinical trial of our most advanced product candidate, EPZ-5676, an inhibitor targeting the DOT1L HMT, being developed for the treatment of acute leukemias with genetic alterations of the *MLL* gene, referred to as MLL-r and MLL-PTD. On January 6, 2014, we announced that we had earned a \$25.0 million proof-of-concept milestone in our collaboration with Celgene Corporation and Celgene International Sarl, collectively referred to as Celgene, in December 2013 by achieving objective responses in two MLL-r patients enrolled in the dose escalation stage of our Phase 1 trial. We are also conducting a Phase 1/2 clinical trial of our second most advanced product candidate, EPZ-6438, an inhibitor targeting the EZH2 HMT, being developed for the treatment of a genetically defined subtype of non-Hodgkin lymphoma and solid tumors including INI1-deficient tumors, such as synovial sarcoma and malignant rhabdoid tumors, or MRT.

In 2014, we plan to have four clinical trials ongoing that are intended to assess the proof of concept of our product candidates in five genetically defined cancer patient groups:

The expansion stage of our ongoing Phase 1 clinical trial of EPZ-5676 in MLL-r adult patients and MLL-PTD adult patients;

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Our planned Phase 1b clinical trial of EPZ-5676 in MLL-r pediatric patients;

Our planned Phase 2 clinical trial of EPZ-6438 in non-Hodgkin lymphoma patients with EZH2 point mutations as part of our ongoing Phase 1/2 clinical trial of EPZ-6438; and

Our planned Phase 2 clinical trial of EPZ-6438 in synovial sarcoma patients.

The initiation of our proof-of-concept trials of EPZ-6438 is subject to our review of the data from the Phase 1 clinical trial of EPZ-6438 that we are conducting as part of our ongoing Phase 1/2 clinical trial of EPZ-6438.

In addition to our clinical programs, we also have a pipeline of HMT inhibitors in preclinical development that target our other prioritized HMTs in the HMTome. These programs are directed to genetically defined cancers, both hematological and solid tumors. Three of these HMT programs are currently partnered with Glaxo Group Limited (an affiliate of GlaxoSmithKline), or GSK. In December 2013, we earned a \$4.0 million milestone from GSK for achieving a development candidate milestone with respect to one of these programs.

The inclusion of patients who have the relevant genetic alteration as early as possible in our trials is a key element of our strategy. Accordingly, we are including patients who have the relevant genetic alterations in the Phase 1 clinical trial of EPZ-5676 and the Phase 1/2 clinical trial of EPZ-6438. If we see evidence of a therapeutic effect in these genetically defined patients, we intend to meet with regulatory authorities to discuss the possibility of an expedited clinical development and regulatory pathway for the applicable program. If eligible, we intend to apply for FDA expedited review and approval programs, including breakthrough therapy and fast track designations.

We have entered into a number of strategic collaborations for our therapeutic programs and corresponding companion diagnostics. Our therapeutic collaborations have provided us with \$133.3 million in non-equity funding through September 30, 2013. Further, in December 2013, we earned an additional \$29.0 million in milestones from Celgene and GSK. Our therapeutic collaborations also provide us with research funding and the potential for more than \$1.0 billion of research, development, regulatory and sales-based milestone payments, as well as royalties or profit sharing on any net product sales. We have entered into three therapeutic collaborations as follows:

A collaboration with Celgene under which we have granted Celgene a license outside of the United States to our DOT1L program, which includes EPZ-5676, and the option during a defined period to license other HMT programs outside of the United States. We retain all United States development and commercialization rights for our DOT1L program and any other programs that we license to Celgene under this collaboration.

A collaboration with Eisai Co., Ltd., or Eisai, under which we have granted Eisai a worldwide license to our EZH2 program, including EPZ-6438. Eisai will pay 100% of global research and development costs for each licensed product candidate unless we exercise our right to opt in to a 50/50 co-development, co-commercialization and profit-share arrangement in the United States for a given licensed product candidate. We can exercise this right at any time prior to the initiation of a registration trial for such product candidate.

A collaboration with GSK under which we have granted GSK a worldwide license to three specified HMT targets. Potential inhibitors of these targets are currently in preclinical development.

We have also entered into an agreement with Abbott Molecular Inc., or Abbott, for the development of a companion diagnostic for use with EPZ-5676 for MLL-r and an agreement with Roche Molecular Systems, Inc., or Roche, and Eisai for the development of a companion

diagnostic for use with EPZ-6438 for non-Hodgkin lymphoma patients with EZH2 point mutations.

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### Strategy

Our goal is to be a leader in the discovery, development and commercialization of personalized therapeutics for the treatment of patients with genetically defined cancers. We systematically identify the genetic alterations that create oncogenes, select patients in whom the identified genetic alteration is found and then design small molecule therapies to inhibit the oncogene. Our approach is part of a broader trend towards personalized therapeutics based on first identifying the underlying cause of a disease afflicting specific patient populations, applying rational drug design tools to create a therapeutic to inhibit a molecular target in the identified disease pathway and using a companion diagnostic to select the right patients for treatment. Because we are tailoring our personalized therapeutics for discrete patient populations with genetically defined cancers, we believe that many of our products may qualify for orphan drug designation in the United States, the European Union and other regions.

Key elements of our strategy to achieve our goal are to:

Rapidly Advance the Clinical Development of Our Two Lead Product Candidates. We are conducting a Phase 1 clinical trial of our most advanced product candidate, EPZ-5676, an inhibitor targeting the DOT1L HMT, being developed for the treatment of acute leukemias with genetic alterations of the MLL gene, referred to as MLL-r and MLL-PTD. We are also conducting a Phase 1/2 clinical trial of our second most advanced product candidate, EPZ-6438, an inhibitor targeting the EZH2 HMT, being developed for the treatment of a genetically defined subtype of non-Hodgkin lymphoma and solid tumors including INI1-deficient tumors such as synovial sarcoma and MRT. We have designed the Phase 1 clinical trial of EPZ-5676 and the Phase 1/2 clinical trial of EPZ-6438 to include some patients with the genetically defined cancer that we are seeking to treat. If we see evidence of a therapeutic effect in either of these trials, we plan to meet with regulatory authorities to discuss the possibility of an expedited clinical development and regulatory pathway for the applicable program. This approach is similar to the clinical development pathway that was used by the sponsor of the cancer therapeutic Zelboraf® which was included by the FDA in its 2011 report on Innovative Drug Approvals and which received marketing approval from the FDA within five years of initiating Phase 1 clinical trials. If safe and sufficiently active in the genetically defined population, we believe that our two lead product candidates may be able to rely on an expedited regulatory approval process because these product candidates have the potential to satisfy the requirements that applied to other genetically targeted cancer therapeutics as well as the FDA s new breakthrough therapy designation, such as treating a life-threatening disease and providing a major advance in treatment. We cannot predict whether or when any of our product candidates will prove effective or safe in humans, if they will receive regulatory approval or if we will be able to participate in FDA expedited review and approval programs, including breakthrough and fast track designation.

**Pursue Expansion Indications for our Two Lead Product Candidates.** We apply our proprietary product platform to identify additional genetically defined cancers that may be treated with each of our product candidates beyond the initial indication of interest. MLL-PTD is an expansion indication for the EPZ-5676 product candidate that we identified internally. Similarly, we identified INI1-deficient tumors as potential expansion indications for EPZ-6438.

Leverage Collaborations. We have established therapeutic collaborations with Celgene, Eisai and GSK for our most advanced HMT programs. These collaborations provide us with significant funding for both our specific development programs and our product platform. They also provide us with access to the considerable scientific, development, regulatory and commercial capabilities of our collaborators. We believe that these collaborations contribute to our ability to rapidly advance our product candidates, build our product platform and concurrently progress a wide range of discovery and development programs. In the case of the Celgene and Eisai arrangements, we have retained commercialization or co-commercialization rights in the United States.

Establish Commercialization and Marketing Capabilities in the United States. We have retained commercialization or co-commercialization rights in the United States for all of our programs other than the three programs in our GSK collaboration. We plan to retain similar rights in connection with any future oncology collaborations. We intend to build a focused specialty sales force and marketing capabilities in the United States to commercialize any of our oncology drugs that receive regulatory approval.

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*Use Our Product Platform to Build a Pipeline of Proprietary HMT Inhibitors.* There are 96 HMT enzymes in the HMTome. We have prioritized 20 of these HMTs based on their potential as attractive targets for personalized therapeutics. We are using our int