

AGENUS INC  
Form 10-Q  
May 01, 2015  
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UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

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Form 10-Q

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

For the quarterly period ended March 31, 2015

or

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

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

Commission File Number: 000-29089

Agenus Inc.

(exact name of registrant as specified in its charter)

Delaware

(State or other jurisdiction of

incorporation or organization)

3 Forbes Road, Lexington, Massachusetts 02421

(Address of principal executive offices, including zip code)

Registrant's telephone number, including area code:

(781) 674-4400

06-1562417

(I.R.S. Employer

Identification No.)

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

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate website, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulations S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes  No

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

Large accelerated filer  Accelerated filer  Non-accelerated filer  Smaller reporting company

(Do not check if a smaller reporting company)

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

Number of shares outstanding of the issuer's Common Stock as of April 27, 2015: 71,485,732 shares

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Agenus Inc.

Three Months Ended March 31, 2015

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## PART I - FINANCIAL INFORMATION

## Item 1. Financial Statements

## AGENUS INC. AND SUBSIDIARIES

## CONDENSED CONSOLIDATED BALANCE SHEETS

(Unaudited)

|  | March 31, 2015 | December 31,<br>2014 |
|--|----------------|----------------------|
| <b>ASSETS</b>  |                |                      |
| Cash and cash equivalents  | \$79,304,207   | \$25,714,519         |
| Short-term investments   | —              | 14,509,570           |
| Inventories  | 88,200         | 95,700               |
| Accounts Receivable  | 2,533,668      | 463,007              |
| Prepaid expenses   | 2,480,448      | 1,247,548            |
| Other current assets   | 747,437        | 639,957              |
| Total current assets   | 85,153,960     | 42,670,301           |
| Plant and equipment, net of accumulated amortization and depreciation of \$28,676,061 and \$28,369,982 at March 31, 2015 and December 31, 2014, respectively   | 5,879,575      | 5,996,687            |
| Goodwill   | 18,268,662     | 17,869,023           |
| Acquired intangible assets, net of accumulated amortization of \$609,846 and \$462,248 at March 31, 2015 and December 31, 2014, respectively   | 6,815,169      | 6,773,722            |
| Other long-term assets   | 1,206,932      | 1,216,795            |
| Total assets   | \$117,324,298  | \$74,526,528         |
| <b>LIABILITIES AND STOCKHOLDERS' EQUITY</b>  |                |                      |
| Current portion, long-term debt  | \$423,838      | \$1,257,178          |
| Current portion, deferred revenue  | 9,586,244      | 184,421              |
| Accounts payable   | 3,972,920      | 1,710,946            |
| Accrued liabilities  | 6,253,883      | 5,501,527            |
| Other current liabilities  | 762,088        | 575,351              |
| Total current liabilities  | 20,998,973     | 9,229,423            |
| Other long-term debt   | 11,078,526     | 4,769,359            |
| Deferred revenue   | 17,243,611     | 3,009,568            |
| Contingent royalty obligation  | 14,800,000     | 15,279,000           |
| Contingent purchase price consideration  | 3,958,000      | 16,420,300           |
| Other long-term liabilities  | 2,986,004      | 2,800,491            |
| Commitments and contingencies  |                |                      |
| <b>STOCKHOLDERS' EQUITY</b>  |                |                      |
| Preferred stock, par value \$0.01 per share; 5,000,000 shares authorized: Series A-1 convertible preferred stock; 31,620 shares designated, issued, and outstanding at March 31, 2015 and December 31, 2014; liquidation value of \$32,063,092 at March 31, 2015 | 316            | 316                  |
| Common stock, par value \$0.01 per share; 140,000,000 shares authorized; 70,836,180 and 62,720,065 shares issued at March 31, 2015 and December 31, 2014, respectively   | 708,362        | 627,201              |
| Additional paid-in capital   | 756,804,409    | 715,667,633          |
| Accumulated other comprehensive loss   | (1,206,099     | ) (1,970,420         |
| Accumulated deficit  | (710,047,804   | ) (691,306,343       |

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|  |               |              |
|--|---------------|--------------|
| Total stockholders' equity   | 46,259,184    | 23,018,387   |
| Total liabilities and stockholders' equity                                       | \$117,324,298 | \$74,526,528 |
| See accompanying notes to unaudited condensed consolidated financial statements. |               |              |

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AGENUS INC. AND SUBSIDIARIES  
 CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE LOSS  
 (Unaudited)

|  | Three Months Ended March<br>31, |              |
|--|---------------------------------|--------------|
|  | 2015                            | 2014         |
| Revenue:   |                                 |              |
| Research and development revenue                               | 3,953,299                       | 720,856      |
| Total revenues   | 3,953,299                       | 720,856      |
| Operating expenses:  |                                 |              |
| Research and development                                       | (9,220,143 )                    | (4,472,533 ) |
| General and administrative                                     | (5,487,109 )                    | (5,163,493 ) |
| Contingent purchase price consideration fair value adjustment  | (7,537,700 )                    | (909,000 )   |
| Operating loss   | (18,291,653 )                   | (9,824,170 ) |
| Other (expense) income:  |                                 |              |
| Non-operating (expense) income                                 | (52,945 )                       | 9,822,466    |
| Interest expense, net  | (396,863 )                      | (355,809 )   |
| Net loss   | (18,741,461 )                   | (357,513 )   |
| Dividends on Series A-1 convertible preferred stock            | (50,620 )                       | (51,026 )    |
| Net loss attributable to common stockholders                   | \$(18,792,081)                  | \$(408,539 ) |
| Per common share data:   |                                 |              |
| Basic and diluted net loss attributable to common stockholders | \$(0.28 )                       | \$(0.01 )    |
| Weighted average number of common shares outstanding:          |                                 |              |
| Basic and diluted  | 66,667,290                      | 50,556,807   |
| Other comprehensive income (loss):                             |                                 |              |
| Foreign currency translation gain                              | \$764,321                       | \$215,417    |
| Other comprehensive income                                     | 764,321                         | 215,417      |
| Comprehensive loss   | \$(18,027,760)                  | \$(193,122 ) |

See accompanying notes to unaudited condensed consolidated financial statements.

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AGENUS INC. AND SUBSIDIARIES  
CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS  
(Unaudited)

|  | Three Months Ended March 31, |               |
|--|------------------------------|---------------|
|  | 2015                         | 2014          |
| Cash flows from operating activities:  |                              |               |
| Net loss   | \$(18,741,461 )              | \$(357,513 )  |
| Adjustments to reconcile net loss to net cash provided by (used in) operating activities:          |                              |               |
| Depreciation and amortization  | 445,497                      | 266,528       |
| Share-based compensation   | 1,492,791                    | 953,836       |
| Non-cash interest expense  | 203,347                      | 153,146       |
| Loss on disposal of assets   | —                            | 1,150         |
| Change in fair value of contingent obligations   | 7,058,700                    | (8,894,974 )  |
| Loss on extinguishment of debt   | 154,117                      | —             |
| Changes in operating assets and liabilities:   |                              |               |
| Accounts receivable  | (2,055,256 )                 | 1,200         |
| Inventories  | 7,500                        | —             |
| Prepaid expenses   | (973,812 )                   | (279,825 )    |
| Accounts payable   | 2,273,733                    | 184,008       |
| Deferred revenue   | 23,635,860                   | (688,904 )    |
| Accrued liabilities and other current liabilities  | 724,760                      | (1,433,230 )  |
| Other operating assets and liabilities   | (10,930,439 )                | (29,768 )     |
| Net cash provided by (used in) operating activities  | 3,295,337                    | (10,124,346 ) |
| Cash flows from investing activities:  |                              |               |
| Cash acquired in acquisition   | —                            | 514,470       |
| Purchases of plant and equipment   | (323,552 )                   | (172,592 )    |
| Proceeds from sale of available-for-sale securities  | 14,534,486                   | —             |
| Net cash provided by investing activities  | 14,210,934                   | 341,878       |
| Cash flows from financing activities:  |                              |               |
| Net proceeds from sale of equity   | 35,000,000                   | 56,667,252    |
| Proceeds from employee stock purchases and option exercises  | 1,108,906                    | 84,271        |
| Financing of plant and equipment   | —                            | (9,505 )      |
| Proceeds from issuance of long-term debt   | 9,000,000                    | —             |
| Payments of debt   | (833,334 )                   | (833,333 )    |
| Payment of contingent purchase price consideration   | (8,180,000 )                 | —             |
| Net cash provided by financing activities  | 36,095,572                   | 55,908,685    |
| Effect of exchange rate changes on cash  | (12,155 )                    | 13,105        |
| Net increase in cash and cash equivalents  | 53,589,688                   | 46,139,322    |
| Cash and cash equivalents, beginning of period   | 25,714,519                   | 27,351,969    |
| Cash and cash equivalents, end of period   | \$79,304,207                 | \$73,491,291  |
| Supplemental cash flow information:  |                              |               |
| Cash paid for interest   | \$201,731                    | \$193,893     |
| Non-cash investing and financing activities:   |                              |               |
| Issuance of common stock, \$0.01 par value, for payment of contingent purchase price consideration | \$216,567                    | \$—           |
| Issuance of common stock, \$0.01 par value, for acquisition of 4-Antibody AG                       | —                            | 10,102,259    |
|  | —                            | 9,721,000     |

Contingent purchase price consideration issued in connection with the acquisition of  
4-Antibody AG  
See accompanying notes to unaudited condensed consolidated financial statements.

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AGENUS INC. AND SUBSIDIARIES

NOTES TO UNAUDITED CONDENSED CONSOLIDATED FINANCIAL STATEMENTS

March 31, 2015

Note A - Business, Liquidity and Basis of Presentation

Agenus Inc. (including its subsidiaries, also referred to as “Agenus,” the “Company,” “we,” “us,” and “our”) is an immunotherapy company discovering and developing innovative treatments for patients with cancer and other diseases in which modulation of immune function could provide therapeutic benefit. Our approaches are driven by three platform technologies:

- our antibody platforms, including our proprietary Retrocyte Display™ and SECAN® technologies (see Note M), and
- our antibody programs, including checkpoint modulators, or CPMs;
- our heat shock protein (HSP)-based vaccines; and
- our saponin-based vaccine adjuvants, principally our QS-21 Stimulon® adjuvant, or QS-21 Stimulon.

We have a portfolio of programs in pre-clinical and clinical stages, including a series of CPMs in investigational new drug (IND)-enabling studies, our Prophage Series vaccine, a Phase 3 ready HSP-based autologous vaccine for glioblastoma multiforme, or GBM, a form of brain cancer, and a number of advanced QS-21 Stimulon-containing vaccine candidates in late stage development by our partner, GlaxoSmithKline (GSK).

For the treatment of cancer, our programs aim to stimulate the immune system to recognize and eradicate cancer cells and disable the mechanisms that cancer cells employ to evade detection and destruction by the immune system.

Because of the breadth of our portfolio, we have the ability to combine our proprietary vaccines with a portfolio of checkpoint modulating antibodies against major checkpoint targets to explore and optimize cancer treatments. Our strategy is to develop these agents either alone or in combinations to yield best-in-class treatments. We assess the development, commercialization and/or partnering strategies with respect to each of our internal product candidates periodically based on several factors, including clinical trial results, competitive positioning and funding requirements and resources.

Agenus’ core technologies include Retrocyte Display, a powerful proprietary platform designed to effectively discover and optimize novel, fully human and humanized monoclonal antibodies against antigens of interest. Our Retrocyte Display technology is applied to the discovery and development of antibodies, including those targeting significant checkpoint targets. Agenus and its partners currently have pre-clinical programs targeting GITR, OX40, CTLA-4, LAG-3, TIM-3 and PD-1. In April 2015, we expanded our antibody discovery platform through the acquisition of key antibody assets from Celexion, LLC, see Note M. Among the acquired assets was the SECANT yeast display platform for the generation of novel monoclonal antibodies and efficient integration of drug targets such as CPMs.

In February 2015, we entered into a broad, global alliance with Incyte Corporation, or Incyte, to pursue the discovery and development of CPMs, initially targeting GITR, OX40, TIM-3 and LAG-3 in the fields of hematology and oncology. We also began collaborating with Merck Sharpe & Dohme in April 2014 to discover antibodies against two undisclosed CPM targets. We anticipate initiating clinical trials with the first of our CPM antibody candidates in 2016. We have also been advancing a series of HSP-based vaccines to treat cancer and infectious disease. In July 2014, we reported positive results from a Phase 2 clinical trial with our Prophage Series vaccine, which showed that patients with newly-diagnosed GBM who were treated with a combination of our Prophage Series vaccine and standard of care showed substantial improvement both in progression-free survival and median overall survival, as compared to historical control data. We are currently exploring options to advance our Prophage Series vaccine into a Phase 3 clinical trial for newly diagnosed GBM, either alone or through a strategic relationship with a third party. We also reported positive results in June 2014 from a Phase 2 clinical trial with our HerpV vaccine candidate for genital herpes. While we do not expect to advance this into a Phase 3 clinical trial for genital herpes, these data demonstrated a HSP vaccine induced disease specific immune response against genital herpes, and we are currently in the process of evaluating the broader application of our HSP peptide-based vaccines beyond genital herpes.

The Company’s QS-21 Stimulon adjuvant is a key component in several of GSK’s pre-clinical and clinical stage vaccine programs, which target prophylactic or therapeutic impact in a variety of infectious diseases and cancer. In December 2014, GSK reported that its Phase 3 clinical trial with shingles vaccine HZ/su, using our QS-21 Stimulon adjuvant, met its primary endpoint, reducing the risk of shingles by 97.2% in adults aged 50 years and older compared



to placebo. GSK also reported positive Phase 3 clinical trial results for its malaria vaccine using QS-21 Stimulon in October 2013. QS-21 Stimulon is also the subject of an out-license agreement with Janssen Sciences Ireland UC for use in a vaccine for Alzheimer's disease.

Our business activities have included product research and development, intellectual property prosecution, manufacturing, regulatory and clinical affairs, corporate finance and development activities, and support of our collaborations. Our product candidates require clinical trials and approvals from regulatory agencies, as well as acceptance in the marketplace.

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Part of our strategy is to develop and commercialize some of our product candidates by continuing our existing arrangements with academic and corporate collaborators and licensees and by entering into new collaborations. We have incurred significant losses since our inception. As of March 31, 2015 we had an accumulated deficit of \$710.0 million. We have financed our operations primarily through the sale of equity and debt securities. We believe that, based on our current plans and activities, our working capital resources at March 31, 2015 will be sufficient to satisfy our liquidity requirements through the first half of 2016.

We may attempt to raise additional funds by: (1) pursuing collaborative, out-licensing and/or partnering opportunities for our portfolio programs and product candidates with one or more third parties, (2) renegotiating third party agreements, (3) selling assets, (4) securing additional debt financing and/or (5) selling equity securities. Satisfying long-term liquidity needs may require the successful commercialization and/or substantial out-licensing or partnering arrangements for our antibody discovery platforms, CPM antibody programs, HSP-based vaccines, and vaccines containing QS-21 Stimulon under development by our licensees. Our long-term success will also be dependent on the successful identification, development and commercialization of potential other product candidates, each of which will require additional capital with no certainty of timing or probability of success. If we incur operating losses for longer than we expect and/or we are unable to raise additional capital, we may become insolvent and be unable to continue our operations.

Our research and development program costs include compensation and other direct costs plus an allocation of indirect costs, based on certain assumptions, and our review of the status of each program. Our product candidates are in various stages of research and development and significant additional expenditures will be required if we start new clinical trials, encounter delays in our programs, apply for regulatory approvals, continue development of our technologies, expand our operations, and/or bring our product candidates to market. The eventual total cost of each clinical trial is dependent on a number of factors such as trial design, length of the trial, number of clinical sites, number of patients, and trial sponsorship. The process of obtaining and maintaining regulatory approvals for new therapeutic products is lengthy, expensive, and uncertain. Because our CPM antibody programs are pre-clinical and the further development of our HSP-based vaccines is subject to evaluation and uncertainty, we are unable to reliably estimate the cost of completing our research and development programs or the timing for bringing such programs to various markets or substantial partnering or out-licensing arrangements. Therefore, we cannot predict if or when material cash inflows from operating activities are likely to commence. We will continue to adjust other spending as needed in order to preserve liquidity. Active programs involving QS-21 Stimulon depend on our collaborative partners or licensees successfully completing clinical trials, successfully manufacturing QS-21 Stimulon to meet demand, obtaining regulatory approvals and successfully commercializing product candidates containing QS-21 Stimulon. The accompanying unaudited interim condensed consolidated financial statements have been prepared in accordance with U.S. generally accepted accounting principles ("U.S. GAAP") for interim financial information and with the instructions to Article 10 of Regulation S-X. Accordingly, they do not include all of the information and footnotes required by U.S. GAAP for complete annual consolidated financial statements. In the opinion of our management, the condensed consolidated financial statements include all normal and recurring adjustments considered necessary for a fair presentation of our financial position and operating results. All significant intercompany transactions and accounts have been eliminated in consolidation. Certain reclassifications have been made to previously reported amounts to conform to the current presentation. Operating results for the three months ended March 31, 2015 are not necessarily indicative of the results that may be expected for the year ending December 31, 2015. For further information, refer to our consolidated financial statements and footnotes thereto included in our Annual Report on Form 10-K for the year ended December 31, 2014 filed with the Securities and Exchange Commission.

For our subsidiary 4-Antibody AG ("4-AB"), which operates in Switzerland and Germany, the local currency is the functional currency. Assets and liabilities of 4-AB are translated into U.S. dollars using rates in effect at the balance sheet date while revenues and expenses are translated into U.S. dollars using average exchange rates. The cumulative translation adjustment resulting from changes in exchange rates are included in the consolidated balance sheets as a component of accumulated other comprehensive loss in total stockholders' equity.

The preparation of consolidated financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosures of contingent assets

and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Management bases its estimates on historical experience and on various assumptions that are believed to be reasonable under the circumstances. Actual results could differ materially from those estimates.

Note B - Net Loss Per Share

Basic income and loss per common share is calculated by dividing the net loss attributable to common stockholders by the weighted average number of common shares outstanding (including common shares issuable under our Directors' Deferred Compensation Plan, or DDCP). Diluted income per common share is calculated by dividing net income attributable to common

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stockholders by the weighted average number of common shares outstanding (including common shares issuable under our DDCP) plus the dilutive effect of outstanding instruments such as warrants, stock options, nonvested shares, convertible preferred stock, and convertible notes. Because we reported a net loss attributable to common stockholders for all periods presented, diluted loss per common share is the same as basic loss per common share, as the effect of utilizing the fully diluted share count would have reduced the net loss per common share. Therefore, the following potentially dilutive securities have been excluded from the computation of diluted weighted average shares outstanding because they would be anti-dilutive:

|                             | March 31, |           |
|-----------------------------|-----------|-----------|
|                             | 2015      | 2014      |
| Warrants                    | 4,351,450 | 2,951,450 |
| Stock options               | 7,834,555 | 4,267,655 |
| Nonvested shares            | 67,578    | 109,747   |
| Convertible preferred stock | 333,333   | 333,333   |
| Convertible Notes           | —         | 382,769   |

## Note C - Debt

As of March 31, 2015, we have \$14.4 million in principal of debt outstanding; \$14.3 million of notes and \$146,000 of debentures.

On February 20, 2015, we, certain existing investors and certain additional investors entered into an Amended and Restated Note Purchase Agreement, pursuant to which we (i) canceled our senior subordinated promissory notes issued in April 2013 (the "2013 Notes") in exchange for new senior subordinated promissory notes (the "2015 Subordinated Notes") in the aggregate principal amount of \$5.0 million, (ii) issued additional 2015 Subordinated Notes in the aggregate principal amount of \$9.0 million and (iii) issued five year warrants to purchase 1,400,000 shares of our common stock at an exercise price of \$5.10 per share.

The 2015 Subordinated Notes bear interest at a rate of 8% per annum, payable in cash on the first day of each month in arrears. Among other default and acceleration terms customary for indebtedness of this type, the 2015 Subordinated Notes include default provisions which allow for the noteholders to accelerate the principal payment of the 2015 Subordinated Notes in the event we become involved in certain bankruptcy proceedings, become insolvent, fail to make a payment of principal or (after a grace period) interest on the 2015 Subordinated Notes, default on other indebtedness with an aggregate principal balance of \$13.5 million or more if such default has the effect of accelerating the maturity of such indebtedness, or become subject to a legal judgment or similar order for the payment of money in an amount greater than \$13.5 million if such amount will not be covered by third-party insurance. The 2015 Subordinated Notes are not convertible into shares of our common stock and will mature on February 20, 2018, at which point we must repay the outstanding balance in cash. The Company may prepay the 2015 Subordinated Notes at any time, in part or in full, without premium or penalty.

The exchange of the 2013 Notes for the 2015 Subordinated Notes was accounted for as a debt extinguishment under the guidance of Accounting Standards Codification 470-50 Debt: Modifications and Extinguishments. For the three months ended March 31, 2015 we recorded a loss on debt extinguishment of approximately \$154,000 in non-operating (expense) income in our condensed consolidated statements of operations and comprehensive loss. The debt discount of approximately \$3.0 million, which relates to the warrants issued in connection with the 2015 Subordinated Notes, is being amortized using the effective interest method over three years; the expected life of the 2015 Subordinated Notes.

In April 2015, we made our final payment of approximately \$278,000 under our \$5.0 million Loan and Security Agreement with Silicon Valley Bank ("SVB Loan") in accordance with the terms of the SVB Loan. We have no

further outstanding indebtedness or obligations under the SVB Loan.

Note D - Collaborations

Incyte Corporation-

On January 9, 2015 and effective February 19, 2015 we entered into a global license, development and commercialization agreement (the "Collaboration Agreement") with Incyte Corporation and a wholly-owned subsidiary thereof (collectively "Incyte"), pursuant to which the parties plan to develop and commercialize novel immuno-therapeutics using our proprietary antibody discovery platforms. The Collaboration Agreement is initially focused on four checkpoint modulator programs directed at GITR, OX40, LAG-3 and TIM-3. In addition to the four identified antibody programs, the parties have an

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option to jointly nominate and pursue the development and commercialization of antibodies against additional targets during a five year discovery period which, upon mutual agreement of the parties for no additional consideration, can be extended for an additional three years.

On January 9, 2015 we also entered into a Stock Purchase Agreement with Incyte Corporation (the “Stock Purchase Agreement”) whereby, for an aggregate purchase price of \$35.0 million, Incyte purchased approximately 7.76 million shares of our common stock, see Note K for more details.

Agreement Structure

Under the terms of the Collaboration Agreement, we received a non-creditable, nonrefundable upfront payment of \$25.0 million. In addition, the parties will share all costs and profits for the GTR and OX40 antibody programs on a 50:50 basis (profit-share products), and we are eligible to receive up to \$20 million in future contingent development milestones under these programs. Incyte is obligated to reimburse us for all development costs that we incur in connection with the LAG-3 and TIM-3 antibody programs (royalty-bearing products) and we are eligible to receive (i) up to \$155 million in future contingent development, regulatory, and commercialization milestone payments and (ii) tiered royalties on global net sales at rates generally ranging from 6% to 12%. For each royalty-bearing product, we will also have the right to elect to co-fund 30% of development costs incurred following initiation of pivotal clinical trials in return for an increase in royalty rates. Additionally, we retain co-promotion participation rights in the United States on any profit-share product. Through the direction of a joint steering committee, the parties anticipate that, for each program, we will serve as the lead for pre-clinical development activities through IND filing, and Incyte will serve as the lead for clinical development activities. The parties expect to initiate the first clinical trials of antibodies arising from these programs in 2016. For each additional antibody arising from a program that the parties elect to bring into the collaboration, if any, we will have the option to designate it as a profit-share product or a royalty-bearing product.

The Collaboration Agreement will continue as long as (i) any product is being developed or commercialized or (ii) the discovery period remains in effect. After the first anniversary of the effective date of the Collaboration Agreement, Incyte may terminate the Collaboration Agreement or any individual program for convenience upon 12 months’ notice. The Collaboration Agreement may also be terminated by either party upon the occurrence of an uncured material breach of the other party or by us if Incyte challenges patent rights controlled by us. In addition, either party may terminate the Collaboration Agreement as to any program if the other party is acquired and the acquiring party controls a competing program.

Collaboration Revenue

Through the three months ended March 31, 2015 we have recognized revenue of approximately \$3.6 million under the Collaboration Agreement, of which, \$1.3 million is related to the amortization of the \$25.0 million non-creditable, nonrefundable upfront payment. As of March 31, 2015 we have deferred revenue outstanding under the Collaboration Agreement of approximately \$23.7 million.

Note E - Goodwill and Acquired Intangible Assets

The following table sets forth the changes in the carrying amount of goodwill for the three months ended March 31, 2015 (in thousands):

|   |          |
|---|----------|
| Balance, December 31, 2014              | \$17,869 |
| Foreign currency translation adjustment | 400      |
| Balance, March 31, 2015                 | \$18,269 |

Acquired intangible assets consisted of the following at March 31, 2015 (in thousands):

|                                     | Amortization<br>period (years) | Gross carrying<br>amount | Accumulated<br>amortization | Net carrying<br>amount |
|-------------------------------------|--------------------------------|--------------------------|-----------------------------|------------------------|
| Intellectual Property               | 15 years                       | \$4,461                  | \$(335)                     | ) \$4,126              |
| Trademarks                          | 4.5 years                      | 836                      | (209)                       | ) 627                  |
| Other                               | 3 years                        | 177                      | (66)                        | ) 111                  |
| In-process research and development | Indefinite                     | 1,951                    | —                           | 1,951                  |

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|       |         |       |         |
|-------|---------|-------|---------|
| Total | \$7,425 | \$610 | \$6,815 |
|-------|---------|-------|---------|

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The weighted average amortization period of our finite-lived intangible assets is 13 years. Amortization expense related to acquired intangibles is estimated at \$407,000 for the balance of 2015, \$517,000 for each of the years ending 2016 and 2017, \$412,000 for the year ending 2018, \$297,000 for the year ending 2019, and \$272,000 for each of the years 2020-2029.

The acquired in-process research and development ("IPR&D") asset relates to the six pre-clinical CPM antibody programs acquired with our acquisition of 4-AB in February 2014. IPR&D acquired in a business combination is capitalized at fair value until the underlying project is completed and is subject to impairment testing. Once the project is completed, the carrying value of IPR&D is amortized over the estimated useful life of the asset. Post-acquisition research and development expenses related to the acquired IPR&D are expensed as incurred.

## Note F - Investments

Cash equivalents and short-term investments consisted of the following as of March 31, 2015 and December 31, 2014 (in thousands):

|                                  | March 31, 2015 |                      | December 31, 2014 |                      |
|----------------------------------|----------------|----------------------|-------------------|----------------------|
|                                  | Cost           | Estimated Fair Value | Cost              | Estimated Fair Value |
| Institutional Money Market Funds | \$69,444       | \$69,444             | \$25,149          | \$25,149             |
| U.S. Treasury Bills              | —              | —                    | 14,508            | 14,510               |
|                                  | \$69,444       | \$69,444             | \$39,657          | \$39,659             |

For the three months ended March 31, 2015, we received proceeds of approximately \$14.5 million from the sale of available-for-sale securities. No proceeds from the maturity of available-for-sale securities were received for the year ended December 31, 2014. Gross realized gains and gross realized losses included in net loss as a result of the sale of available-for-sale securities were immaterial for the three months ended March 31, 2015. As a result of the short-term nature of our investments, there were minimal unrealized holding gains or losses as March 31, 2015 and December 31, 2014.

Of the investments listed above, \$69.4 million and \$25.1 million have been classified as cash equivalents on our condensed consolidated balance sheet as of March 31, 2015 and December 31, 2014, respectively.

## Note G - Share-based Compensation Plans

We primarily use the Black-Scholes option pricing model to value stock options granted to employees and non-employees, including stock options granted to members of our Board of Directors. All stock options have 10-year terms and generally vest ratably over a 3 or 4-year period. A non-cash charge to operations for the stock options granted to non-employees that have vesting or other performance criteria is affected each reporting period, until the non-employee options vest, by changes in the fair value of our common stock.

A summary of option activity for the three months ended March 31, 2015 is presented below:

|  | Options   | Weighted Average Exercise Price | Weighted Average Remaining Contractual Term (in years) | Aggregate Intrinsic Value |
|--|-----------|---------------------------------|--|---------------------------|
| Outstanding at December 31, 2014             | 6,525,724 | \$4.40                          |  |                           |
| Granted                                      | 1,796,244 | 4.94                            |  |                           |
| Exercised                                    | (275,621) | ) 3.86                          |  |                           |
| Forfeited                                    | (179,743) | ) 3.18                          |  |                           |
| Expired                                      | (32,049)  | ) 8.40                          |  |                           |
| Outstanding at March 31, 2015                | 7,834,555 | \$4.56                          | 7.94   | \$8,838,984               |
| Vested or expected to vest at March 31, 2015 | 7,155,578 | \$4.63                          | 7.84   | \$7,878,403               |
| Exercisable at March 31, 2015                | 3,593,394 | \$5.39                          | 6.89   | \$3,345,678               |



The weighted average grant-date fair values of stock options granted during the three months ended March 31, 2015 and 2014, were \$3.21 and \$2.54, respectively.

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As of March 31, 2015, \$7.7 million of total unrecognized compensation cost, \$297,000 of which pertains to a market condition award, related to stock options granted to employees and directors is expected to be recognized over a weighted average period of 2.4 years.

As of March 31, 2015, unrecognized expense for options granted to outside advisors for which performance (vesting) has not yet been completed but the exercise price of the option is known is \$839,000. Such amount is subject to change each reporting period based upon changes in the fair value of our common stock, expected volatility, and the risk-free interest rate, until the outside advisor completes his or her performance under the option agreement. Certain employees and consultants have been granted nonvested stock. The fair value of nonvested stock is calculated based on the closing sale price of our common stock on the date of issuance.

A summary of nonvested stock activity for the three months ended March 31, 2015 is presented below:

|                                  | Nonvested<br>Shares | Weighted<br>Average<br>Grant Date<br>Fair Value |
|----------------------------------|---------------------|---|
| Outstanding at December 31, 2014 | 78,828              | \$3.93  |
| Granted                          | —                   | —   |
| Vested                           | (11,250             | ) 4.18  |
| Forfeited                        | —                   | —   |
| Outstanding at March 31, 2015    | 67,578              |   |

As of March 31, 2015, there was \$157,000 of unrecognized share-based compensation expense related to these nonvested shares awarded to employees expected to be recognized over a weighted average period of 1.6 years. As of March 31, 2015, unrecognized expense for nonvested shares awarded to outside advisors is \$49,000. The total intrinsic value of shares vested during the three months ended March 31, 2015, was \$47,000.

During the three months ended March 31, 2015, 14,680 shares were issued under the 2009 Employee Stock Purchase Plan, 11,250 shares were issued as a result of the vesting of nonvested stock and 275,621 shares were issued as a result of stock option exercises.

The impact on our results of operations from share-based compensation for the three months ended March 31, 2015, and 2014, was as follows (in thousands):

|  | Three Months Ended<br>March 31, |       |
|--|---------------------------------|-------|
|  | 2015                            | 2014  |
| Research and development               | \$570                           | 254   |
| General and administrative             | 923                             | 700   |
| Total share-based compensation expense | \$1,493                         | \$954 |

## Note H - Accrued Liabilities

Accrued liabilities consisted of the following as of March 31, 2015 and December 31, 2014 (in thousands):

|                   | March 31, 2015 | December 31,<br>2014 |
|-------------------|----------------|----------------------|
| Professional fees | \$1,685        | \$1,438              |
| Payroll           | 2,297          | 3,134                |
| Other             | 2,272          | 930                  |
|                   | \$6,254        | \$5,502              |

## Note I - Fair Value Measurements

We measure our short-term investments, contingent royalty obligation, and contingent purchase price consideration at fair value. Our short-term investments were comprised solely of U.S. Treasury securities that were valued using quoted market prices with no valuation adjustments applied. Accordingly, these securities are categorized as Level 1 assets.



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The fair values of our contingent royalty obligation and our contingent purchase price consideration, \$14.8 million and \$4.0 million, respectively, are based on significant inputs not observable in the market, which require them to be reported as Level 3 liabilities within the fair value hierarchy. The valuation of these liabilities uses assumptions we believe would be made by a market participant. In particular, the valuation analysis for the contingent royalty obligation used the Income Approach based on the sum of the economic income that an asset is anticipated to produce in the future. In this case that asset is the potential royalty income to be paid to us as a result of certain license agreements for QS-21 Stimulon. The fair value of the contingent royalty obligation is estimated by applying a risk adjusted discount rate (10.2%) to the probability adjusted royalty revenue stream based on expected approval dates. These fair value estimates are most sensitive to changes in the probability of regulatory approvals. The Discounted Cash Flow method of the Income Approach was chosen as the method best suited to valuing the contingent royalty obligation.

The fair value of our contingent purchase price consideration is based on estimates from a Monte Carlo simulation of our market capitalization and other factors impacting the probability of triggering the milestone payments. Market capitalization was evolved using a geometric brownian motion, calculated daily for the life of the contingent purchase price consideration.

Assets and liabilities measured at fair value are summarized below (in thousands):

| Description                             | March 31,<br>2015 | Quoted Prices in<br>Active<br>Markets for<br>Identical Assets<br>(Level 1) | Significant<br>Other<br>Observable<br>Inputs<br>(Level 2) | Significant<br>Unobservable<br>Inputs (Level 3) |
|---|-------------------|--|---|---|
| Liabilities:                            |                   |  |   |   |
| Contingent royalty obligation           | \$ 14,800         | \$—  | \$—   | \$ 14,800                                       |
| Contingent purchase price consideration | 3,958             | —  | —   | 3,958   |
|   | \$ 18,758         | \$—  | \$—   | \$ 18,758                                       |

| Description                             | December<br>31, 2014 | Quoted Prices in<br>Active<br>Markets for<br>Identical Assets<br>(Level 1) | Significant<br>Other<br>Observable<br>Inputs<br>(Level 2) | Significant<br>Unobservable<br>Inputs (Level 3) |
|---|----------------------|--|---|---|
| Assets:                                 |                      |  |   |   |
| Short-term investments                  | \$ 14,510            | \$ 14,510  | \$—   | \$—   |
| Liabilities:                            |                      |  |   |   |
| Contingent royalty obligation           | 15,279               | —  | —   | 15,279  |
| Contingent purchase price consideration | 16,420               | —  | —   | 16,420  |
|   | \$ 31,699            | \$—  | \$—   | \$ 31,699                                       |

The following table presents our liabilities measured at fair value using significant unobservable inputs (Level 3), as of March 31, 2015 (amounts in thousands):

|   |           |
|---|-----------|
| Balance, December 31, 2014  | \$ 31,699 |
| Change in fair value of contingent royalty obligation during the period           | (479)     |
| Change in fair value of contingent purchase price consideration during the period | 7,538     |
| Achievement of contingent purchase price milestone                                | (20,000)  |
| Balance, March 31, 2015   | \$ 18,758 |

The decrease in fair value of the contingent royalty obligation liability is included in non-operating (expense) income in our condensed consolidated statement of operations for the three months ended March 31, 2015. There were no changes in the valuation techniques during the period and there were no transfers into or out of Levels 1 and 2.

On January 23, 2015, we achieved the first contingent milestone pursuant to the terms of our Share Exchange Agreement dated January 10, 2014, by and among us, 4-AB, the former shareholder of 4-AB and Vischer AG, as Representative (the "Share Exchange Agreement"), and accordingly we paid \$20.0 million.

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The estimated fair values of all of our financial instruments, excluding our outstanding debt, approximate their carrying amounts in the condensed consolidated balance sheets. The fair value of our outstanding debt was derived by evaluating the nature and terms of each note and considering the prevailing economic and market conditions at the balance sheet date.

The fair value of our outstanding debt balance at March 31, 2015 and December 31, 2014 was \$15.2 million and \$6.1 million respectively, based on the Level 2 valuation hierarchy of the fair value measurements standard using a present value methodology. The principal value of our outstanding debt balance at March 31, 2015 and December 31, 2014 was \$14.4 million and \$6.3 million, respectively.

### Note J - Benefit Plans

We maintain a multiple employer benefit plan that covers all of our international employees. The annual measurement date for this plan is December 31. Benefits are based upon years of service and compensation.

For three months ended March 31, 2015 we contributed approximately \$24,000 to our international multiple employer benefit plan and for the remainder of the year ending December 31, 2015 we expect to contribute approximately \$80,000 to the plan. No contributions were made for the three months ended March 31, 2014.

### Note K - Equity

On January 9, 2015, in connection with the execution of the Collaboration Agreement, we also entered into the Stock Purchase Agreement with Incyte Corporation, pursuant to which Incyte Corporation purchased approximately 7.76 million shares of our common stock (the "Shares") in February 2015 for an aggregate purchase price of \$35.0 million, or approximately \$4.51 per share. Under the Stock Purchase Agreement, Incyte has agreed not to dispose of any of the Shares for a period of 12 months and we have agreed to register the Shares for resale under the Securities Act of 1933, as amended (the "Securities Act").

In connection with the achievement of the first contingent milestone pursuant to the Share Exchange Agreement, we issued 50,596 shares of our common stock valued at approximately \$217,000 as payment of a portion of our obligation.

### Note L - Recent Accounting Pronouncements

In May 2014, the FASB issued ASU No. 2014-09, Revenue from Contracts with Customers, ("ASU 2014-09"). ASU 2014-09 amends revenue recognition principles and provides a single set of criteria for revenue recognition among all industries. This new standard provides a five step framework whereby revenue is recognized when promised goods or services are transferred to a customer at an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. The standard also requires enhanced disclosures pertaining to revenue recognition in both interim and annual periods. ASU 2014-09 is effective for interim and annual periods beginning after December 15, 2016. We are currently evaluating the potential impact that ASU 2014-09 may have on our financial position and results of operations.

In August 2014, the FASB issued ASU No. 2014-15, Disclosure of Uncertainties about an Entity's Ability to Continue as a Going Concern, ("ASU 2014-15"). ASU 2014-15 describes how an entity should assess its ability to meet obligations and sets rules for how this information should be disclosed in the financial statements. The standard provides accounting that will be used along with existing auditing standards. ASU 2014-15 applies to all entities and is effective for the annual period ending after December 15, 2016, and for annual and interim periods thereafter with early adoption permitted. We are currently evaluating the potential impact that ASU 2014-15 may have on our consolidated financial statements and related disclosures.

### Note M - Subsequent Events

On April 7, 2015 (the "Closing Date"), we entered into an Asset Purchase Agreement (the "Purchase Agreement") with Celexion, LLC ("Celexion") and each of the members of Celexion, pursuant to which, we acquired Celexion's SECANT yeast display antibody discovery platform, its full-length IgG antibody library, its technology for the discovery of molecules targeting cell membrane-associated antigens, and certain other related intellectual property assets (collectively, the "Purchased Assets"). As consideration for the Purchased Assets, on the Closing Date we paid Celexion \$1.0 million in cash and issued Celexion 574,140 shares of our common stock valued at approximately \$5.23 per

share. As additional consideration for the Purchased Assets, we agreed under the Purchase Agreement to pay to Celexion (i) \$1.0 million in cash payable on each of the 9-month and 18-month anniversaries of the Closing Date and (ii) \$4.0 million on each of the 12-month and 24-month anniversaries of the Closing Date payable at our discretion in cash, shares of our common stock, or any combination thereof. If we elect to pay any of the additional consideration in shares of our common stock, such shares will be issued at a price per share equal to the simple average of the daily closing volume weighted average price over the 20 trading days preceding the date of issuance. We have agreed to file one or more registration statements under the Securities Act to cover the resale of all shares issued as

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consideration under the Purchase Agreement. We are currently in the process of determining the impact the acquisition of the SECANT yeast display antibody discovery platform will have on our financial position and results of operations.

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

## Forward Looking Statements

This Quarterly Report on Form 10-Q and other written and oral statements we make from time to time contain certain “forward-looking” statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934 (the “Exchange Act”). You can identify these forward-looking statements by the fact they use words such as “could,” “expect,” “anticipate,” “estimate,” “target,” “may,” “project,” “guidance,” “intend,” “plan,” “potential,” “opportunity,” “future” and other words and terms of similar meaning and expression in connection with any discussion of future operating or financial performance. You can also identify forward-looking statements by the fact that they do not relate strictly to historical or current facts. Such forward-looking statements are based on current expectations and involve inherent risks and uncertainties, including factors that could delay, divert or change any of them, and could cause actual outcomes to differ materially from current expectations. These statements are likely to relate to, among other things, our business strategy, our research and development, our product development efforts, our ability to commercialize our product candidates, the activities of our licensees, our prospects for initiating partnerships or collaborations, the timing of the introduction of products, the effect of new accounting pronouncements, uncertainty regarding our future operating results and our profitability, anticipated sources of funds as well as our plans, objectives, expectations, and intentions.

We have included more detailed descriptions of these risks and uncertainties and other risks and uncertainties applicable to our business that we believe could cause actual results to differ materially from any forward-looking statements in Part II-Item 1A “Risk Factors” of this Quarterly Report on Form 10-Q. We encourage you to read those descriptions carefully. Although we believe we have been prudent in our plans and assumptions, no assurance can be given that any goal or plan set forth in forward-looking statements can be achieved. We caution investors not to place significant reliance on forward-looking statements contained in this document; such statements need to be evaluated in light of all the information contained in this document. Furthermore, the statements speak only as of the date of this document, and we undertake no obligation to update or revise these statements.

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## Overview

We are an immunotherapy company discovering and developing innovative treatments for patients with cancer and other diseases in which modulation of immune function could provide therapeutic benefit. Our approaches are driven by three platform technologies:

- our antibody platform, including our proprietary Retrocyte Display and SECANT technologies, and our antibody programs, including checkpoint modulators, or CPMs;
- our heat shock protein (HSP)-based vaccines; and
- our saponin-based vaccine adjuvants, principally our QS-21 Stimulon adjuvant, or QS-21 Stimulon.

We have a portfolio of programs in pre-clinical and clinical stages, including a series of CPMs in investigational new drug (IND)-enabling studies, a Phase 3 ready HSP-based autologous vaccine for glioblastoma multiforme, or GBM, a form of brain cancer, and a number of advanced QS-21 Stimulon-containing vaccine candidates in late stage development by our partner, GlaxoSmithKline (GSK). We assess the development, commercialization and/or partnering strategies with respect to each of our internal product candidates periodically based on several factors, including clinical trial results, competitive positioning and funding requirements and resources.

For the treatment of cancer, our programs aim to stimulate the immune system to recognize and eradicate cancer cells and disable the mechanisms that cancer cells employ to evade detection and destruction by the immune system.

Because of the breadth of our portfolio, we have the ability to combine our proprietary vaccines with a portfolio of checkpoint modulating antibodies against major checkpoint targets to explore and optimize cancer treatments. Our strategy is to develop these agents either alone or in combinations to yield best-in-class treatments. We assess the development, commercialization and/or partnering strategies with respect to each of our internal product candidates



periodically based on several factors, including clinical trial results, competitive positioning and funding requirements and resources.

Our Retrocyte Display platform has been applied to the discovery and development of CPMs targeting significant checkpoint targets. Agenus and its partners have pre-clinical programs targeting GITR, OX40, CTLA-4, LAG-3, TIM-3 and PD-1. In April 2015, we expanded our antibody discovery platform through the acquisition of key antibody assets from

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Celexion, LLC. Among the acquired assets was the SECANT yeast display platform for the generation of novel monoclonal antibodies and efficient integration of drug targets such as CPMs.

In January 2015, we announced a broad, global alliance with Incyte Corporation, or Incyte, to pursue the discovery and development of CPMs that initially target GITR, OX40, TIM-3 and LAG-3, and potentially other antibodies for the treatment of patients with cancer. We also began collaborating with Merck Sharpe & Dohme, or Merck, in April 2014 to discover antibodies against two undisclosed checkpoint targets. We plan to file two INDs in 2015 for CPM antibody candidates targeting GITR and CTLA-4, and we anticipate initiating clinical trials with the first of our CPM antibody candidates in 2016.

In addition to our internal development efforts, we continue to pursue collaborative, out-licensing and/or partnering opportunities for our portfolio programs and product candidates, as well as explore in-licensing, acquisitions and collaborative arrangements in areas of synergy with our existing programs. Our business activities have included product research and development, intellectual property prosecution, manufacturing, regulatory and clinical affairs, corporate finance and development activities, and support of our collaborations.

We have financed our operations primarily through the sale of equity and debt securities. We believe that, based on our current plans and activities, our working capital resources at March 31, 2015 will be sufficient to satisfy our liquidity requirements through the first half of 2016. We may attempt to raise additional funds by: (1) pursuing collaborative, out-licensing and/or partnering opportunities for our portfolio programs and product candidates with one or more third parties, (2) renegotiating third party agreements, (3) selling assets, (4) securing additional debt financing and/or (5) selling equity securities. Satisfying long-term liquidity needs may require the successful commercialization and/or substantial out-licensing or partnering arrangements for our antibody discovery platforms, CPM antibody programs, HSP-based vaccines, and vaccines containing QS-21 Stimulon under development by our licensees. Our long term success will also be dependent on the successful identification, development and commercialization of potential other product candidates, each of which will require additional capital with no certainty of timing or probability of success. If we incur operating losses for longer than we expect and/or we are unable to raise additional capital, we may become insolvent and be unable to continue our operations.

Historical Results of Operations

Three months ended March 31, 2015 Compared to the three months ended March 31, 2014

Revenue: We recognized revenue of approximately \$4.0 million and \$721,000 during the three months ended March 31, 2015 and 2014, respectively. Revenues primarily include fees earned under our license agreements. During the three months ended March 31, 2015 and 2014, we recorded approximately \$1.3 million and \$689,000, respectively, from the amortization of deferred revenue.

Research and Development: Research and development expenses include the costs associated with our internal research and development activities, including compensation and benefits, occupancy costs, clinical manufacturing costs, costs of consultants, and administrative costs. Research and development expense increased 106% to \$9.2 million for the three months ended March 31, 2015 from \$4.5 million for the three months ended March 31, 2014. Increased expenses in 2015 primarily relate to the increased research and development costs of the CPM antibody programs and compensation expense related to increased headcount.

General and Administrative: General and administrative expenses consist primarily of personnel costs, facility expenses, and professional fees. General and administrative expenses increased 6% to \$5.5 million for the three months ended March 31, 2015 from \$5.2 million for the three months ended March 31, 2014.

Contingent purchase price consideration fair value adjustment: Contingent purchase price consideration fair value adjustment represents the increase in the fair value of our contingent purchase price consideration during the three months ended March 31, 2015 related to the achievement of a milestone during the quarter.

Non-operating (expense) income: Non-operating expense for the three months ended March 31, 2015 represents a foreign currency exchange loss as well as the loss on extinguishment of our 2013 Notes partially offset by the change in the fair value of our contingent royalty obligation. Non-operating income for the three months ended March 31, 2014 represents the change in the fair value of our contingent royalty obligation. The fair value of this contingent royalty obligation changed primarily due to changes in the estimated revenue stream underlying the obligation.

Interest Expense, net: Interest expense, net increased to approximately \$397,000 for the three months ended March 31, 2015 from \$356,000 for the three months ended March 31, 2014 due to the issuance of our 2015 Subordinated Notes in February 2015.

Research and Development Programs

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During the three months ended March 31, 2015, these research and development programs consisted largely of our HSP-based vaccines for cancer and infectious diseases and CPM antibody programs as indicated in the following table (in thousands).

| Research and Development Program            | Product                  | Three Months Ended | Year Ended December 31, |          |          | Prior to 2012 | Total     |
|---|--------------------------|--------------------|-------------------------|----------|----------|---------------|-----------|
|   |                          | March 31, 2015     | 2014                    | 2013     | 2012     |               |           |
| Heat shock proteins for cancer              | Prophage Series Vaccines | \$1,178            | \$6,153                 | \$5,882  | \$5,613  | \$292,033     | \$310,859 |
| Heat shock proteins for infectious diseases | HerpV                    | 227                | 2,443                   | 6,358    | 4,862    | 19,088        | 32,978    |
| Vaccine adjuvant                            | QS-21 Stimulon           | 72                 | 321                     | 753      | 85       | 12,498        | 13,729    |
| Checkpoint modulator programs*              |                          | 7,608              | 13,422                  | —        | —        | —             | 21,030    |
| Other research and development programs     |                          | 135                | 10                      | 12       | 4        | 33,540        | 33,701    |
| Total research and development expenses     |                          | \$9,220            | \$22,349                | \$13,005 | \$10,564 | \$357,159     | \$412,297 |

\* Prior to 2014, costs were incurred by 4-Antibody (4-AB), a company we acquired in February 2014.

Research and development program costs include compensation and other direct costs plus an allocation of indirect costs, based on certain assumptions and our review of the status of each program. Our product candidates are in various stages of development and significant additional expenditures will be required if we start new clinical trials, encounter delays in our programs, apply for regulatory approvals, continue development of our technologies, expand our operations, and/or bring our product candidates to market. The total cost of any particular clinical trial is dependent on a number of factors such as trial design, length of the trial, number of clinical sites, number of patients, and trial sponsorship. The process of obtaining and maintaining regulatory approvals for new therapeutic products is lengthy, expensive, and uncertain. Because our CPM antibody programs are pre-clinical, and because further development of HSP-based vaccines is dependent on successful partnering or funding efforts, among other factors, we are unable to reliably estimate the cost of completing our research and development programs or the timing for bringing such programs to various markets or substantial partnering or out-licensing arrangements, and, therefore, when, if ever, material cash inflows are likely to commence. Active programs involving QS-21 Stimulon depend on our collaborative partners or licensees successfully completing clinical trials, successfully manufacturing QS-21 Stimulon to meet demand, obtaining regulatory approvals and successfully commercializing product candidates containing QS-21 Stimulon.

#### Liquidity and Capital Resources

We have incurred annual operating losses since inception, and we had an accumulated deficit of \$710.0 million as of March 31, 2015. We expect to incur significant losses over the next several years as we continue development of our technologies and product candidates, manage our regulatory processes, initiate and continue clinical trials, and prepare for potential commercialization of products. We have financed our operations primarily through the sale of equity and debt securities, and interest income earned on cash, cash equivalents, and short-term investment balances. From our inception through March 31, 2015, we have raised aggregate net proceeds of approximately \$663.7 million through the sale of common and preferred stock, the exercise of stock options and warrants, proceeds from our employee stock purchase plan, and the issuance of convertible notes and other notes. In February 2015, we received aggregate proceeds of \$60.0 million through our collaboration and stock purchase agreements with Incyte Corporation and issued \$9.0 million in new 2015 Subordinated Notes.

We also maintain an effective registration statement (the "Shelf Registration Statement"), covering the offering of up to \$150.0 million of common stock, preferred stock, warrants, debt securities and units. The Shelf Registration Statement includes a prospectus covering the offering, issuance and sale of up to ten million shares of our common stock from time to time in "at the market offerings" pursuant to an At Market Sales Issuance Agreement (the "Sales Agreement") entered into with MLV & Co. LLC (the "Sales Agent"). Pursuant to the Sales Agreement, sales will be made only upon instructions by us to the Sales Agent, and we cannot provide any assurances that we will issue any shares pursuant to the Sales Agreement. As of March 31, 2015, we have 10.0 million shares available for sale under the Sales Agreement.

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As of March 31, 2015, we had \$14.4 million of debt outstanding, \$278,000 of which was paid and settled in April 2015. In April 2013, we entered into a Note Purchase Agreement with various investors for senior subordinated notes (the "2013 Notes") in the aggregate principal amount of \$5.0 million due in April 2015. In February 2015, we exchanged the 2013 Notes for new senior subordinated notes (the "2015 Subordinated Notes") in the aggregate principal amount of \$5.0 million with annual interest at 8% and also issued additional 2015 Subordinated Notes in the aggregate principal amount of \$9.0 million, such notes due February 2018. In addition, we also issued to the holders of the 2015 Subordinated Notes five year warrants to purchase 1.4 million unregistered shares of our common stock at an exercise price of \$5.10 per share.

Our cash, cash equivalents, and short-term investments at March 31, 2015 were \$79.3 million, an increase of \$39.1 million from December 31, 2014, principally as a result of (i) our collaboration and stock purchase agreements with Incyte which generated aggregate proceeds of \$60.0 million and (ii) our 2015 Subordinated Notes which generated an aggregate of \$9.0 million of new proceeds. We believe that, based on our current plans and activities, our cash and cash equivalents of \$79.3 million as of March 31, 2015 will be sufficient to satisfy our liquidity requirements through the first half of 2016. We continue to monitor the likelihood of success of our key initiatives and are prepared to discontinue funding of such activities if they do not prove to be feasible, restrict capital expenditures and/or reduce the scale of our operations.

We expect to attempt to raise additional funds in advance of depleting our current funds. We may attempt to raise funds by: (1) pursuing collaborative, out-licensing and/or partnering opportunities for our portfolio programs and product candidates with one or more third parties, (2) renegotiating third party agreements, (3) selling assets, (4) securing additional debt financing and/or (5) selling equity securities. Satisfying long-term liquidity needs may require the successful commercialization and/or substantial out-licensing or partnering arrangements for our antibody discovery platforms, CPM antibody programs, HSP-based vaccines, and vaccines containing QS-21 Stimulon under development by our licensees. Our long-term success will also be dependent on the successful identification, development and commercialization of potential other product candidates, each of which will require additional capital with no certainty of timing or probability of success. If we incur operating losses for longer than we expect and/or we are unable to raise additional capital, we may become insolvent and be unable to continue our operations. Our future cash requirements include, but are not limited to, supporting clinical trial and regulatory efforts and continuing our other research and development programs. Since inception, we have entered into various agreements with contract manufacturers, institutions and clinical research organizations (collectively "third party providers") to perform pre-clinical activities and to conduct and monitor our clinical studies. Under these agreements, subject to the enrollment of patients and performance by the applicable third party provider, we have estimated our total payments to be \$71.1 million over the term of the related activities. Through March 31, 2015, we have expensed \$53.9 million as research and development expenses and \$52.6 million has been paid under these agreements. The timing of expense recognition and future payments related to these agreements is subject to the enrollment of patients and performance by the applicable third party provider. We have also entered into sponsored research agreements related to our product candidates that required payments of \$6.7 million, \$6.6 million of which have been paid as of March 31, 2015. We plan to enter into additional agreements with third party providers as well as sponsored research agreements, and we anticipate significant additional expenditures will be required to initiate and advance our various programs. Part of our strategy is to develop and commercialize some of our product candidates by continuing our existing collaborative arrangements with academic and collaborative partners and licensees and by entering into new collaborations. As a result of our collaborative agreements, we will not completely control the efforts to attempt to bring those product candidates to market. For example, our collaboration with Incyte for the development, manufacture and commercialization of CPM antibodies against certain targets is managed by a joint steering committee with equal representation from Agenus and Incyte. We also have agreements with licensees that allow the use of our QS-21 Stimulon adjuvant in numerous vaccines, which grant exclusive worldwide rights in some fields of use and co-exclusive or non-exclusive rights in others. These agreements generally call for royalties to be paid to us on future sales of licensed products that result from these agreements, which may or may not be achieved.

Net cash provided by operating activities for the three months ended March 31, 2015 was \$3.3 million while net cash used in operating activities for the three months ended March 31, 2014, was \$10.1 million. This increase primarily resulted from the receipt of the up-front fees under our Collaboration Agreement with Incyte partially offset by the payment related to our contingent purchase price consideration during 2015. We continue to support and develop our QS-21 Stimulon partnering collaborations. If applications for marketing approval of vaccines that are submitted by our licensees are approved, the first products containing QS-21 Stimulon are anticipated to be launched in the 2016-2017 time-frame. We are generally entitled to royalties on sales by our licensees of vaccines using QS-21 Stimulon for at least 10 years after commercial launch, with some exceptions. Our future ability to generate cash from operations will depend on achieving regulatory approval and market acceptance of our product candidates, achieving benchmarks as defined in existing collaborative agreements, and our ability to enter into new collaborations. Under our Collaboration Agreement with Incyte, we are required to share costs with Incyte on a

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50:50 basis under the GITR and OX40 programs; there is a potential for these costs to be high and the development program budgets for these antibodies to not be in our complete control.

Recent Accounting Pronouncements

In May 2014, the FASB issued ASU No. 2014-09, Revenue from Contracts with Customers, ("ASU 2014-09"). ASU 2014-09 amends revenue recognition principles and provides a single set of criteria for revenue recognition among all industries. This new standard provides a five step framework whereby revenue is recognized when promised goods or services are transferred to a customer at an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. The standard also requires enhanced disclosures pertaining to revenue recognition in both interim and annual periods. ASU 2014-09 is effective for interim and annual periods beginning after December 15, 2016. We are currently evaluating the potential impact that ASU 2014-09 may have on our financial position and results of operations.

In August 2014, the FASB issued ASU No. 2014-15, Disclosure of Uncertainties about an Entity's Ability to Continue as a Going Concern, ("ASU 2014-15"). ASU 2014-15 describes how an entity should assess its ability to meet obligations and sets rules for how this information should be disclosed in the financial statements. The standard provides accounting guidance that will be used along with existing auditing standards. ASU 2014-15 applies to all entities and is effective for the annual period ending after December 15, 2016, and for annual and interim periods thereafter with early adoption permitted. We are currently evaluating the potential impact that ASU 2014-15 may have on our consolidated financial statements and related disclosures.



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Item 3. Quantitative and Qualitative Disclosures About Market Risk

Our primary market risk exposure is foreign currency exchange rate risk. International revenues and expenses are generally transacted by our foreign subsidiaries and are denominated in local currency. Approximately 28% and 22% of our operating expenses for the three months ended March 31, 2015 and the year ended December 31, 2014, respectively, were from a foreign subsidiary. Additionally, in the normal course of business, we are exposed to fluctuations in interest rates as we seek debt financing and invest excess cash. We are also exposed to foreign currency exchange rate fluctuation risk related to our transactions denominated in foreign currencies. We do not currently employ specific strategies, such as the use of derivative instruments or hedging, to manage these exposures. Our currency exposures vary, but are primarily concentrated in the Euro and Swiss Franc, in large part due to our wholly-owned subsidiary, 4-Antibody, a company with operations in Switzerland and Germany. There has been no material change to our interest rate exposure and our approach toward interest rate and foreign currency exchange rate exposures, as described in our Annual Report on Form 10-K for the year ended December 31, 2014.

We had cash and cash equivalents at March 31, 2015 of \$79.3 million, which are exposed to the impact of interest rate changes, and our interest income fluctuates as interest rates change. Due to the short-term nature of our investments in money market funds, our carrying value approximates the fair value of these investments at March 31, 2015.

We invest our cash and cash equivalents in accordance with our investment policy. The primary objectives of our investment policy are to preserve principal, maintain proper liquidity to meet operating needs, and maximize yields. We review our investment policy annually and amend it as deemed necessary. Currently, the investment policy prohibits investing in any structured investment vehicles and asset-backed commercial paper. Although our investments are subject to credit risk, our investment policy specifies credit quality standards for our investments and limits the amount of credit exposure from any single issue, issuer, or type of investment. We do not invest in derivative financial instruments. Accordingly, we do not believe that there is currently any material market risk exposure with respect to derivatives or other financial instruments that would require disclosure under this item.

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Item 4. Controls and Procedures

Evaluation of Disclosure Controls and Procedures

Under the supervision and with the participation of our management, including our Principal Executive Officer and Principal Financial Officer, we conducted an evaluation of the effectiveness of our disclosure controls and procedures, as such term is defined under Rule 13a-15(e) and Rule 15d-15(e) promulgated under the Exchange Act. Based on this evaluation, our Principal Executive Officer and our Principal Financial Officer concluded that, as of the end of the period covered by this Quarterly Report on Form 10-Q, our disclosure controls and procedures were effective and were designed to ensure that information we are required to disclose in the reports that we file or submit under the Exchange Act is accumulated and communicated to management, including our Principal Executive Officer and Principal Financial Officer, as appropriate, to allow timely decisions regarding required disclosure, and is recorded, processed, summarized and reported within the time periods specified in the Securities and Exchange Commission's rules and forms. It should be noted that any system of controls is designed to provide reasonable, but not absolute, assurances that the system will achieve its stated goals under all reasonably foreseeable circumstances. Our Principal Executive Officer and Principal Financial Officer have each concluded that our disclosure controls and procedures as of the end of the period covered by this report are effective at a level that provides such reasonable assurances.

Changes in Internal Control Over Financial Reporting

There was no change in our internal control over financial reporting (as defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act) that occurred during the first quarter ended March 31, 2015 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

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PART II - OTHER INFORMATION

Item 1A. Risk Factors

Our future operating results could differ materially from the results described in this Quarterly Report on Form 10-Q due to the risks and uncertainties described below. You should consider carefully the following information about risks below in evaluating our business. If any of the following risks actually occur, our business, financial conditions, results of operations and future growth prospects would likely be materially and adversely affected. In these circumstances, the market price of our common stock would likely decline. These risk factors restate and supersede the risk factors set forth under the heading "Risk Factors" in our Annual Report on Form 10-K for the year ended December 31, 2014.

We cannot assure investors that our assumptions and expectations will prove to be correct. Important factors could cause our actual results to differ materially from those indicated or implied by forward-looking statements. See "Management's Discussion and Analysis of Financial Condition and Results of Operations-Forward Looking Statements" in Part I, Item 2 of this Quarterly Report on Form 10-Q. Factors that could cause or contribute to such differences include those factors discussed below.

Risks Related to our Business

If we incur operating losses for longer than we expect, or we are not able to raise additional capital, we may be unable to continue our operations, or we may become insolvent.

Our net losses for the years ended December 31, 2014, 2013, and 2012, were \$42.5 million, \$30.1 million, and \$11.3 million, respectively. During three months ended March 31, 2015, we generated a net loss of \$18.7 million.

We expect to incur additional losses over the next several years as we continue research and clinical development of our technologies and pursue partnering opportunities, regulatory strategies, commercialization, and related activities.

Furthermore, our ability to generate cash from operations is dependent on the success of our licensees and collaborative partners, as well as the likelihood and timing of new strategic licensing and partnering relationships and/or successful development and commercialization of CPM product candidates, including through our collaboration with Incyte, our HSP-based vaccines, and vaccines containing QS-21 Stimulon. From our inception through March 31, 2015, we have incurred net losses totaling \$710.0 million.

On March 31, 2015, we had \$79.3 million in cash and cash equivalents. We believe that, based on our current plans and activities, our working capital resources at March 31, 2015 will be sufficient to satisfy our liquidity requirements through the first half of 2016. We expect to attempt to raise additional funds in advance of depleting our current funds although additional funding may not be available on favorable terms, or at all. For the three months ended March 31, 2015, our average monthly cash provided by operating activities was approximately \$1.1 million. This average monthly cash provided by operating activities primarily resulted from one-time payments received under the collaboration agreement and therefore our net cash provided by operations for the quarter ended March 31, 2015 is not indicative of future results.

To date, we have financed our operations primarily through the sale of equity and debt securities. In order to finance future operations, we will be required to raise additional funds in the capital markets, through arrangements with collaborative partners, such as our global alliance with Incyte, or from other sources. Additional financing may not be available on favorable terms, or at all. If we are unable to raise additional funds when we need them or if we incur operating losses for longer than we expect, we may not be able to continue some or all of our operations, or we may become insolvent. We also may be forced to license or sell technologies to others under agreements that are on unfavorable terms or allocate to third parties substantial portions of the potential value of these technologies.

There are a number of factors that will influence our future capital requirements, including, without limitation, the following:

- the number and characteristics of the product candidates we pursue;

- our ability to successfully develop, manufacture and commercialize CPM product candidates, including pursuant to our collaboration agreement with Incyte;

the scope, progress, results and costs of researching and developing our future product candidates, and conducting pre-clinical and clinical trials, including with respect to our GITR and OX40 antibody programs, for which we have agreed to share all costs and profits with Incyte on a 50:50 basis;

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•the timing of, and the costs involved in, obtaining regulatory approvals for our and our licensees' product candidates;

•the cost of manufacturing;

•our ability to establish and maintain strategic partnerships, licensing or other arrangements and the financial terms of such arrangements;

•the costs involved in preparing, filing, prosecuting, maintaining, defending and enforcing our intellectual property rights;

•the costs associated with any successful commercial operations; and

•the timing, receipt and amount of sales of, or royalties on, our future products and those of our partners, if any. General economic conditions in the United States economy and abroad may have a material adverse effect on our liquidity and financial condition, particularly if our ability to raise additional funds is impaired. The ability of potential patients and/or health care payers to pay for our products could also be adversely impacted, thereby limiting our potential revenue. In addition, any negative impacts from any deterioration in the credit markets on our collaborative partners could limit potential revenue from our product candidates.

If we default on certain of our outstanding debt instruments and the repayment of such indebtedness is accelerated, our liquidity could be materially and adversely affected.

In February 2015, we exchanged the senior subordinated promissory notes that we issued in 2013 for new senior subordinated promissory notes in the aggregate principal amount of \$5.0 million with annual interest at 8%, and we issued an additional \$9.0 million principal amount of such notes (the "2015 Subordinated Notes"). The 2015 Subordinated Notes are due February 2018 and include default provisions which allow for the acceleration of the principal payment of the 2015 Subordinated Notes in the event we become involved in certain bankruptcy proceedings, become insolvent, fail to make a payment of principal or (after a grace period) interest on the 2015 Subordinated Notes, default on other indebtedness with an aggregate principal balance of \$13.5 million or more if such default has the effect of accelerating the maturity of such indebtedness, or become subject to a legal judgment or similar order for the payment of money in an amount greater than \$13.5 million if such amount will not be covered by third-party insurance.

If we default on the 2015 Subordinated Notes and the repayment of such indebtedness is accelerated, our liquidity could be materially and adversely affected.

Our ability to satisfy our obligations under this indebtedness will depend upon our future performance, which is subject to many factors, including the factors identified in this "Risk Factors" section and other factors beyond our control. If we do not have sufficient cash on hand to service our indebtedness, we may be required, among other things, to:

- seek additional financing in the debt or equity markets;
- refinance or restructure all or a portion of our indebtedness;
- sell, out-license, or otherwise dispose of assets; and/or
- reduce or delay planned expenditures on research and development and/or commercialization activities.

Such measures might not be sufficient to enable us to make principal and interest payments. In addition, any such financing, refinancing, or sale of assets might not be available on favorable terms, if at all.

We are dependent upon our collaboration with Incyte to further develop, manufacture and commercialize CPM antibodies against certain targets using our proprietary antibody discovery platforms. If we or Incyte fail to perform as expected, the potential for us to generate future revenues under the collaboration would be significantly reduced, the development and/or commercialization of these CPM antibodies may be terminated or substantially delayed, and our business would be severely harmed.

Under the terms of our collaboration agreement with Incyte, we and Incyte have created a joint steering committee that oversees and manages worldwide regulatory, development, manufacturing and commercialization activities for

our CPM antibody product candidates with equal representation from both parties. We anticipate that, for each program, Agenus will serve as the lead for pre-clinical development activities through the filing of an investigational new drug application, or IND, and Incyte will serve as the lead for clinical development activities. Accordingly, the timely and successful completion by Incyte of clinical development activities will significantly affect the timing and amount of any revenues we may receive under the collaboration agreement. Incyte's activities will be influenced by, among other things, the efforts and allocation of resources

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by Incyte, which we cannot control. If Incyte does not perform in the manner we expect or fulfill its responsibilities in a timely manner, or at all, the clinical development, manufacturing, regulatory approval and commercialization efforts related to CPM antibodies under the collaboration could be delayed or terminated, and it could become necessary for us to assume the responsibilities for the clinical development, manufacturing, regulatory approval or commercialization of the CPM antibodies at our own expense. Accordingly, there can be no assurance that any of the development, regulatory or sales milestones will be achieved, that we will receive any future milestone or royalty payments under the collaboration agreement, or that we will share in any revenues under the collaboration agreement. In addition, our collaboration with Incyte may be unsuccessful due to other factors, including the following:

• After the first anniversary of the effective date of the collaboration agreement, Incyte may terminate the agreement or any individual program for convenience upon 12 months' notice;

• We may have disagreements with Incyte that are not settled amicably or in our favor, particularly on the joint steering committee where Incyte will under most circumstances have the deciding vote in the event of a disagreement;

• Incyte may change the focus of its development and commercialization efforts or prioritize other programs more highly and, accordingly, reduce the efforts and resources allocated to our collaboration;

• Incyte may choose not to develop and commercialize CPM products, if any, in all relevant markets or for one or more indications, if at all; and

• If Incyte is acquired during the term of our collaboration, the acquirer may have competing programs or different strategic priorities that could cause it to reduce its commitment to our collaboration.

If Incyte terminates our collaboration agreement, we would need to raise additional capital and may need to identify and come to agreement with another collaboration partner to advance our CPM programs. Even if we are able to find another partner, this effort could cause delays in our timelines and/or additional expenses, which could adversely affect our business prospects and the future of our CPM antibody product candidates.

Our CPM programs are still in pre-clinical development, and there is no guarantee that they will be successful or produce any revenues from CPM antibody product candidates, if any.

Our CPM programs are currently in pre-clinical development. Even if our pre-clinical studies produce positive results, they may not necessarily be predictive of the results of future clinical trials in humans. Many companies in the pharmaceutical and biotechnology industries have suffered significant setbacks in clinical trials after achieving positive results in pre-clinical development, and we cannot be certain that we will not face similar setbacks. These setbacks have been caused by, among other things, pre-clinical findings made while clinical trials were underway or safety or efficacy observations made in clinical trials, including adverse events. Moreover, pre-clinical and clinical data are often susceptible to varying interpretations and analyses, and many companies that believed their product candidates performed satisfactorily in pre-clinical studies and clinical trials nonetheless failed to obtain regulatory approval. If we fail to produce positive results in future clinical trials of CPM antibodies, our business and financial prospects would be materially adversely affected.

We are undergoing significant growth, and we may encounter difficulties in managing this growth, which could disrupt our operations.

From January 1, 2014 to March 31, 2015 we increased our employee headcount from 68 to 140, 38 of whom joined us in connection with the acquisition of 4-AB in February 2014. In addition, through 4-AB, we also expanded our research and development activities internationally to Switzerland and Germany. In April 2015, we further expanded our antibody discovery platform through the acquisition of antibody platform assets from Celexion, LLC. We expect to continue increasing our headcount as we continue to build our research and development capabilities and integrate our acquired technology platforms. To manage this anticipated growth and expansion, we must continue to implement and improve our managerial, operational and financial systems and continue to recruit, train and retain qualified personnel. If our management is unable to effectively manage our growth, our expenses may increase more than expected, our ability to generate revenue could be reduced, and we may not be able to implement our business strategy.

We may fail to realize the benefits we expect to realize as a result of the acquisition of certain assets from Celexion, LLC and/or we may suffer a loss in productivity as a result of the integration of those assets into our business.

The long-term success of the acquisition of certain assets, including the SECANT yeast display platform for the generation of novel monoclonal antibodies and efficient integration of drug targets such as CPMs, from Celexion, LLC will depend, in part, on our ability to realize the anticipated business opportunities and growth prospects from combining our proprietary Retrocyte Display platform with the SECANT platform. We may never realize these anticipated business opportunities and growth prospects. We might experience increased competition that limits our ability to expand our business, and we might not be able to capitalize on expected business opportunities, including advancing the development of CPMs. If any of these factors limit our ability to integrate the SECANT technology platform with our existing technologies successfully



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or on a timely basis, or to develop the business opportunities that we expect to realize from the acquisition of the SECANT technology platform, the expectations of future results of operations might not be met.

We may not receive anticipated QS-21 Stimulon revenues from our licensees.

We currently rely upon and expect to continue to rely upon third party licensees, particularly GlaxoSmithKline, or GSK, to develop, test, market and manufacture vaccines that utilize our QS-21 Stimulon adjuvant.

As each licensee controls its own product development process, we cannot predict our licensees' requirements for QS-21 Stimulon in the future or to what extent, if any, they will develop vaccines that use QS-21 Stimulon as an adjuvant. Our licensees may initiate or terminate programs containing QS-21 Stimulon at any time. In addition, clinical trials being conducted by our licensees may not be successful. For example, in April 2014, GSK announced the termination of a Phase 3 trial of its MAGE-A3 cancer immunotherapeutic (a vaccine containing QS-21 Stimulon) in non-small cell lung cancer, and in 2013, GSK announced the Phase 3 trial of their MAGE-A3 cancer immunotherapeutic in melanoma missed its first co-primary endpoint and that the study would continue until completion of its second co-primary endpoint, which is expected to occur in 2015. The results of these trials and other trials conducted by our licensees, as well as other factors, may cause our licensees to terminate additional programs containing QS-21 Stimulon, which could materially diminish future potential revenue from QS-21 Stimulon. In addition, even if our licensees successfully complete clinical trials with vaccine candidates using QS-21 Stimulon there is no guarantee that these products will obtain regulatory approval or, if so approved, will generate any future milestones or royalty payments.

Any inability to receive anticipated revenues, or a reduction in revenues, generated from QS-21 Stimulon could have a material adverse effect on our business, financial condition and results of operations.

Our HSP peptide-based platform for infectious diseases is in early stage development, and there is no guarantee that a product candidate will progress from this platform.

In June 2014, we reported positive results from a Phase 2 trial with our HerpV vaccine candidate for genital herpes, which includes QS-21 Stimulon. While the HerpV Phase 2 met its formal endpoints, it is unclear that the magnitude of the effect on viral load would be sufficient to significantly reduce the incidence, severity, or duration of herpetic lesions or reduce the risk of viral transmission. Although we would consider potential partnering relationships for the further development of our HerpV program, we are not currently engaged in any discussions with any such potential partners, and we do not currently expect to advance this program into a Phase 3 trial. We are currently in the process of evaluating the broader application of our HSP peptide-based vaccines beyond genital herpes, but there is no guarantee that a product candidate will progress from this platform. Furthermore, it is possible that research and discoveries by others will render any product candidate obsolete or noncompetitive.

We may not be able to advance clinical development or commercialize Prophage Series vaccines or realize any benefits from this program without a partner or an alternative means of financing.

The probability of future clinical development efforts leading to marketing approval and commercialization of Prophage Series vaccines is highly uncertain. Prophage Series vaccines have been in clinical development for over 15 years, including multiple Phase 1 and 2 trials in eight different tumor types as well as randomized Phase 3 trials in metastatic melanoma and adjuvant renal cell carcinoma. To date, none of our clinical trials with Prophage Series vaccines has resulted in a marketing approval, except in Russia where commercialization of the approved product was unsuccessful. Due to our limited resources and our corporate priorities, we do not expect to support on-going clinical studies with Prophage Series vaccines or perform additional studies without the help of a partner or alternative means of financing.

We do not currently sponsor any on-going clinical trials with Prophage Series vaccines and therefore we lack the ability to control trial design, timelines and data availability. Current and future studies may eventually be terminated due to, among other things, slow enrollment, lack of probability that they will yield useful translational and/or efficacy data, lengthy timelines, or the unlikelihood that results will support timely or successful regulatory filings. Currently, the only actively enrolling Prophage Series vaccine clinical study is a Phase 2 trial of Prophage Series vaccine in combination with bevacizumab in patients with surgically resectable recurrent glioma. This trial is being conducted under the sponsorship of the Alliance for Clinical Trials in Oncology, a cooperative group of the National Cancer Institute. To date, clinical site activation and patient enrollment have not met expectations, which could curtail the

viability of sustaining the trial. Furthermore, potential changes in clinical practices trending away from the administration of bevacizumab for the treatment of recurrent glioma could exacerbate enrollment issues and/or render the trial design impractical. In January 2014, we initiated a randomized Phase 2 trial with Prophage Series vaccine and Bristol-Myers Squibb's ipilimumab, for the treatment of Stage III and IV metastatic melanoma. This study is being sponsored by an investigator at the University of Texas and, although the investigator-held IND was activated to allow initiation of the trial, patient enrollment has not yet begun. The design of this study protocol was recently modified to incorporate a non-randomized trial of Prophage Series vaccine in combination with ipilimumab with a reference to prospective comparative patients treated with ipilimumab only. This redesign may enable us to more quickly evaluate safety and immunologic correlates of responders in patients with metastatic melanoma. While we believe the combination of

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Prophage Series vaccines and ipilimumab has the potential to trigger a more effective immune response against the tumor than ipilimumab alone, there is no guarantee that this trial will be completed or that it will yield useful translational and/or efficacy data.

Changes in our manufacturing strategies, manufacturing problems, or increased demand may cause delays, unanticipated costs, or loss of revenue streams within or across our programs.

Our CPM antibody programs, including those partnered with Incyte, will require substantial manufacturing development and investment to progress. The CPM antibody programs are pre-clinical, and we have only recently initiated the development of the reagents, cell lines and systems required to manufacture our antibody candidates. If these development-stage efforts are delayed or do not produce the desired outcomes, this will cause delays in development timelines and increased costs, which may cause us to limit the size and scope of our efforts and studies. In addition, our staff has limited experience in the manufacture and development of the CPM antibody programs and we have recruited or are recruiting additional staff with expertise in these areas. We also currently utilize consultants and advisors to assist advancing these operations. We rely on contract manufacturing organizations, or CMOs, and contract research organizations, or CROs, to support our CPM antibody programs. In the future, we may need to secure additional manufacturing capacity with our current or additional CMOs. Such an effort could divert resources away from the CPM antibody programs and lead to delays in the development of product candidates. We may also need to develop or secure later phase and/or commercial manufacturing capabilities, all of which would cause us to incur additional costs and risk. In the event that our CPM antibody programs require progressively larger production capabilities, our options for qualified CMOs may become more limited. In addition, while we currently have our own cGMP manufacturing facility in Lexington, MA, our facility is not currently configured or equipped to adequately support manufacturing of the required cell lines or the downstream production of cGMP antibody product candidates. We currently manufacture our Prophage Series vaccines in our Lexington, MA facility. Manufacturing of the Prophage Series vaccines is complex, and various factors could cause delays or an inability to supply the vaccine. Deviations in the processes controlling manufacture could result in production failures. Furthermore, we have limited financial, personnel, and manufacturing resources and there is no assurance that we will be able to allocate resources necessary for the continued manufacturing of Prophage Series vaccines in light of competing corporate priorities. In addition, regulatory bodies may require us to make our manufacturing facility a single product facility. In such an instance, we would no longer have the ability to manufacture Prophage Series vaccines in addition to other product candidates in our current facility.

We have given our corporate QS-21 Stimulon licensees, GSK and Janssen Ireland Sciences UC, or Janssen, manufacturing rights for QS-21 Stimulon for use in their product programs. If they or their third party contract manufacturers encounter problems with QS-21 Stimulon manufacturing, any of their programs containing QS-21 Stimulon could be delayed or terminated, and this could have an adverse effect on our license fees, milestone payments and royalties that we may otherwise receive from these programs. We have retained the right to manufacture QS-21 for ourselves and third parties, although no other such programs are anticipated to bring us substantial revenues in the near future, if ever.

Our ability to efficiently manufacture our products is contingent upon a CMO's ability to ramp up production in a timely manner without the benefit of years of experience and familiarity with the processes, which we may not be able to adequately transfer.

We currently rely upon and expect to continue to rely upon third parties, potentially including our collaborators or licensees, to produce materials required to support our product candidates, pre-clinical studies, clinical trials, and commercial efforts. A number of factors could cause production interruptions at either our manufacturing facility or the facilities of our CMOs or suppliers, including equipment malfunctions, labor or employment retention problems, natural disasters, power outages, terrorist activities, or disruptions in the operations of our suppliers. Alternatively, there is the possibility we may have excess manufacturing capacity if product candidates do not progress as planned. Reliance on third-party manufacturers entails risks to which we would not be subject if we manufactured products ourselves, including reliance on the third party for regulatory compliance, the possibility of breach of the manufacturing agreement by the third party because of factors beyond our control, and the possibility of termination or non-renewal of the agreement by the third party, based on its own business priorities, at a time that is costly or

inconvenient for us.

Biopharmaceutical manufacturing is also subject to extensive government regulation. Components of a finished therapeutic product approved for commercial sale or used in late-stage clinical trials must be manufactured in accordance with cGMP. These regulations govern manufacturing processes and procedures (including record keeping) and the implementation and operation of quality systems to control and assure the quality of investigational products and products approved for sale. Our facilities and quality systems and the facilities and quality systems of some or all of our third party contractors must pass a pre-approval inspection for compliance with the applicable regulations as a condition of regulatory approval of product candidates. In addition, facilities are subject to on-going inspections, and minor changes in manufacturing processes may require additional regulatory approvals, either of which could cause us to incur significant additional costs and lose revenue.

Risks associated with doing business internationally could negatively affect our business.

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We have research and development operations in Switzerland and Germany. We have in the past, and may continue to pursue pathways to develop and commercialize our product candidates in non-U.S. jurisdictions. Various risks associated with foreign operations may impact our success. Possible risks of foreign operations include fluctuations in the value of foreign and domestic currencies, disruptions in the import, export, and transportation of patient tumors and our products or product candidates, the product and service needs of foreign customers, difficulties in building and managing foreign relationships, the performance of our licensees or collaborators, geopolitical instability, unexpected regulatory, economic, or political changes in foreign markets and limitations on the flexibility of our operations and costs imposed by local labor laws. For example, our Oncophage® vaccine is approved for sale in Russia, but we have not and do not expect to receive any revenues from sales in Russia. See “Risk Factors- Even if we receive marketing approval for our product candidates, such product approvals could be subject to restrictions or withdrawals. Regulatory requirements are subject to change.”

Our competitors in the biotechnology and pharmaceutical industries may have superior products, manufacturing capability, selling and marketing expertise and/or financial and other resources.

Our product candidates and the product candidates in development by our collaborative partners may fail because of competition from major pharmaceutical companies and specialized biotechnology companies that market products, or that are engaged in the development of product candidates, directed at cancer, infectious diseases and degenerative disorders. Many of our competitors, including large pharmaceutical companies, have greater financial and human resources and more experience than we do. Our competitors may:

- commercialize their product candidates sooner than we commercialize our own;
- develop safer or more effective therapeutic drugs or preventive vaccines and other therapeutic products;
- implement more effective approaches to sales and marketing and capture some of our potential market share;
- establish superior intellectual property positions;
- discover technologies that may result in medical insights or breakthroughs, which render our drugs or vaccines obsolete, possibly before they generate any revenue, if ever; or
- adversely affect our ability to recruit patients for our clinical trials.

There is no guarantee that our products or product candidates will be able to compete with potential future products being developed by our competitors.

We have CPM antibody programs currently in pre-clinical development targeting GITR, OX40, CTLA-4, LAG-3, TIM-3 and PD-1. We are aware of many companies that have antibody-based products on the market or in clinical development that are directed to the same biological target as some of our programs, including, without limitation, the following: (1) Bristol-Myers Squibb markets ipilimumab, an anti-CTLA-4 antibody, and nivolumab, an anti-PD1 antibody, (2) Merck has an approved anti-PD1 antibody in the United States, (3) Ono Pharmaceuticals has an approved anti-PD1 antibody in Japan, (4) Medimmune has anti-CTLA-4, OX-40 and PD1 antibodies in development, (5) Curetech has an anti-PDI antibody in development, and (6) Pfizer has an anti-CTLA-4 antibody in development. Tesaro also has antibody programs targeting PD-1, TIM-3 and LAG-3, which include both monospecific and dual reactive antibody drug candidates. There is no guarantee that our antibody product candidates will be able to compete with those under development by our competitors.

We are aware of compounds that claim to be comparable to QS-21 Stimulon that are being used in clinical trials. Several other vaccine adjuvants are in development and could compete with QS-21 Stimulon for inclusion in vaccines in development. These adjuvants include, but are not limited to, oligonucleotides, under development by Pfizer, Idera, Colby, and Dynavax, MF59, under development by Novartis, IC31, under development by Intercell, and MPL, under development by GSK. In the past, we have provided QS-21 Stimulon to other entities under materials transfer arrangements. In at least one instance, it is possible that this material was used unlawfully to develop synthetic formulations and/or derivatives of QS-21. In addition, companies such as Adjuvance Technologies, Inc., CSL Limited, and Novavax, Inc., as well as academic institutions and manufacturers of saponin extracts, are developing saponin adjuvants, including derivatives and synthetic formulations. These sources may be competitive for our ability to execute future partnering and licensing arrangements involving QS-21 Stimulon. The existence of products developed by these and other competitors, or other products of which we are not aware or which other companies may develop in the future, may adversely affect the marketability of products we develop.

We are also aware of a third party that manufactures pre-clinical material purporting to be comparable to QS-21 Stimulon. The claims being made by this third party may create marketplace confusion and have an adverse effect on the goodwill generated by us and our partners with respect to QS-21 Stimulon. Any diminution of this goodwill may have an adverse effect on our ability to commercialize this technology, either alone or with a third party.

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In competition with our Prophage Series product candidates, Genentech markets bevacizumab, and Eisai and Arbor Pharmaceuticals market carmustine. In addition, TVAX Biomedical and Stemline Therapeutics are developing immunotherapy candidates TVI-Brain-1 and SL-701, respectively, for recurrent glioma. Schering Corporation, a subsidiary of Merck, markets temozolamide for treatment of patients with newly diagnosed glioma. Other companies are developing vaccine candidates for the treatment of patients with newly diagnosed glioma, such as ImmunoCellular Therapeutics (ICT-107), Northwest Biotherapeutics (DC-Vax), Immatics (IMA-950), Activartis Biotech (GBM-Vax), Annias Immunotherapeutics (CMV Vaccine) and Celldex (CDX-110). Other companies may begin development programs as well.

If vaccines from our Prophage Series vaccines are developed in other indications, they could face additional competition in those indications. In addition, and prior to regulatory approval, our Prophage Series vaccines and all of our other product candidates may compete for access to patients with other products in clinical development, with products approved for use in the indications we are studying, or with off-label use of products in the indications we are studying. We anticipate that we will face increased competition in the future as new companies enter markets we seek to address and scientific developments surrounding immunotherapy and other traditional cancer therapies continue to accelerate.

Our future growth depends on our ability to successfully identify, develop, acquire or in-license technologies, products and product candidates; otherwise, we may have limited growth opportunities.

An important part of our business strategy is to continue to develop a pipeline of product candidates by developing, acquiring or in-licensing products, businesses or technologies that we believe are a strategic fit with our existing business. However, these business activities may entail numerous operational and financial risks, including:

- difficulty or inability to secure financing to fund development activities for such development, acquisition or in-licensed products or technologies;
- incurrence of substantial debt or dilutive issuances of securities to pay for development, acquisition or in-licensing of new technologies, products or product candidates;
- disruption of our business and diversion of our management's time and attention;
- higher than expected development, acquisition or in-license and integration costs;
- exposure to unknown liabilities;
- difficulty and cost in combining the technologies, operations and personnel of any acquired businesses with our technologies, operations and personnel, including without limitation, the assets we recently acquired from Celexion, LLC;
- inability to retain key employees of any acquired businesses;
- difficulty in managing multiple product development programs; and
- inability to successfully develop new products or clinical failure.

We have limited resources to identify and execute the development, acquisition or in-licensing of products, businesses and technologies and integrate them into our current infrastructure. We may compete with larger pharmaceutical companies and other competitors in our efforts to establish new collaborations, and/or acquire, in-license, and/or advance new product candidates. These competitors likely will have access to greater financial resources than us and may have greater expertise in identifying and evaluating new opportunities. Moreover, we may devote resources to potential development, acquisitions or in-licensing opportunities that are never completed, or we may fail to realize the anticipated benefits of such efforts.

Failure to enter into and/or maintain significant licensing, distribution and/or collaboration agreements on favorable terms to us may hinder or cause us to cease our efforts to develop and commercialize our product candidates, increase our development timelines, and/or increase our need to rely on partnering or financing mechanisms, such as sales of debt or equity securities, to fund our operations and continue our current and anticipated programs.

As previously noted, our ability to advance our CPM programs depends in part on collaborative agreements such as our collaboration with Incyte. See "Risk Factor - We are dependent upon our collaboration with Incyte to further develop, manufacture and commercialize CPM antibodies against certain targets using our proprietary antibody discovery platforms. If we or Incyte fail to perform as expected, the potential for us to generate future revenues under the collaboration would be significantly reduced, the development and/or commercialization of these CPM antibodies

may be terminated or substantially delayed, and our business would be severely harmed." In addition, we have been engaged in efforts to enter into licensing, distribution and/or collaborative agreements with one or more pharmaceutical or biotechnology companies to assist us with development and/or commercialization of our other product candidates. If we are successful in entering into such agreements, we may not be able to negotiate agreements with economic terms similar to those negotiated by other companies. We may not,



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for example, obtain significant upfront payments, substantial royalty rates or milestones. If we fail to enter into any such agreements, our efforts to develop and/or commercialize our products or product candidates may be undermined. In addition, if we do not raise funds through any such agreements, we will need to rely on other financing mechanisms, such as sales of debt or equity securities, to fund our operations. Such financing mechanisms, if available, may not be sufficient or timely enough to advance our programs forward in a meaningful way in the short-term.

While we have been pursuing these business development efforts for several years for our Prophage Series vaccine, we have not entered into a substantial agreement other than the agreement with NewVac which was unsuccessful and expired in 2014. In addition, other companies may not be interested in pursuing patient-specific vaccines like our Prophage Series vaccines, and many other companies have been and may continue to be unwilling to commit to an agreement prior to receipt of additional clinical data, if at all.

Because we rely on collaborators and licensees for the development and commercialization of most of our product candidate programs, these programs may not prove successful, and/or we may not receive significant payments from such parties.

Part of our strategy is to develop and commercialize a majority of our product candidates by continuing or entering into arrangements with academic, government, or corporate collaborators and licensees. Our success depends on our ability to negotiate such agreements on favorable terms and on the success of the other parties in performing research, pre-clinical and clinical testing, completing regulatory applications, and commercializing product candidates. Our research, development, and commercialization efforts with respect to antibody candidates from the Retrocyte Display and SECANT technology platforms are, in part, contingent upon the participation of institutional and corporate collaborators. For example, 4-AB has or has had collaborative arrangements with Ludwig Cancer Research ("LCR") and Brazil-based Recepta Biopharma SA ("Recepta"), among others. In December 2014, we entered into a new license agreement with LCR, which replaced the prior agreement for some of our target programs. We are in continued discussions with LCR and Recepta with respect to certain of our other target programs. If we are not able to come to agreement on terms or maintain and optimize these arrangements, as well as advance other current or potential collaborations on terms favorable to us, this could have a negative impact on our operations. In February 2015 we began a broad collaboration with Incyte to pursue the discovery and development of CPMs. See "Risk Factors-Risks Related to our Business-We are dependent upon our collaboration with Incyte to further develop, manufacture and commercialize CPM antibodies against certain targets using our proprietary antibody discovery platforms. If we or Incyte fail to perform as expected, the potential for us to generate future revenues under the collaboration would be significantly reduced, the development and/or commercialization of these CPM antibodies may be terminated or substantially delayed, and our business would be severely harmed."

In addition, substantially all product candidates containing QS-21 Stimulon depend on the success of our collaborative partners or licensees, and our relationships with these third parties. Such product candidates depend on our collaborators and licensees successfully enrolling patients and completing clinical trials, being committed to dedicating the resources necessary to advance these product candidates, obtaining regulatory approvals, and successfully manufacturing and commercializing product candidates.

To date, the development of Prophage Series vaccine for the treatment of patients with glioma has been driven by investigator sponsored initiatives, spear-headed in large part by Dr. Andrew Parsa in conjunction with the Alliance for Clinical Trials in Oncology, a National Cancer Institute cooperative group, or NCI, which is sponsoring a Phase 2 clinical trial of this product candidate in this indication. On April 13, 2015, Dr. Andrew Parsa passed away unexpectedly. While several other investigators and the NCI Alliance have supported and expressed they will continue to support the Prophage Series glioma programs, it is possible that these investigator sponsored initiatives could be delayed or even terminated as a result of Dr. Parsa's passing. Furthermore, when our licensees or third party collaborators sponsor clinical trials using our product candidates, we cannot control the timing of enrollment, data readout, or quality of such trials or related activities. In addition, substantially all product candidates containing QS-21 Stimulon depend on the success of our collaborative partners or licensees, and our relationships with these third parties. Such product candidates depend on our collaborators and licensees successfully enrolling patients and completing clinical trials, being committed to dedicating the resources to advance these product candidates, obtaining

regulatory approvals, and successfully manufacturing and commercializing product candidates. We previously granted NewVac an exclusive license to manufacture, market and sell Oncophage® in the Russian Federation and certain other CIS countries, but the relationship was unsuccessful and expired in 2014 with no benefit to us.

Development activities for our collaborative programs may fail to produce marketable products due to unsuccessful results or abandonment of these programs, failure to enter into future collaborations or license agreements, or the inability to manufacture product supply requirements for our collaborators and licensees. Several of our agreements also require us to transfer important rights and regulatory compliance responsibilities to our collaborators and licensees. As a result of these collaborative agreements, we will not control the nature, timing, or cost of bringing these product candidates to market. Our collaborators and licensees could choose not to, or be unable to, devote resources to these arrangements or adhere to required timelines, or, under certain circumstances, may terminate these arrangements early. They may cease pursuing product

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candidates or elect to collaborate with different companies. In addition, these collaborators and licensees, outside of their arrangements with us, may develop technologies or products that are competitive with those that we are developing. From time to time, we may also become involved in disputes with our collaborators or licensees. Such disputes could result in the incurrence of significant expense, or the termination of collaborations. We may be unable to fulfill all of our obligations to our collaborators, which may result in the termination of collaborations. As a result of these factors, our strategic collaborations may not yield revenue. Furthermore, we may be unable to enter into new collaborations or enter into new collaborations on favorable terms. Failure to generate significant revenue from collaborations could increase our need to fund our operations through sales of debt or equity securities and would negatively affect our business prospects.

Our ability to use net operating loss carryforwards to reduce future tax payments may be limited or restricted.

We have generated significant net operating loss carryforwards, or NOLs, as a result of our incurrence of losses since inception. We generally are able to carry NOLs forward to reduce taxable income in future years. However, our ability to utilize the NOLs is subject to the rules of Section 382 of the Internal Revenue Code of 1986, as amended.

Section 382 generally restricts the use of NOLs after an “ownership change.” An ownership change occurs if, among other things, the stockholders (or specified groups of stockholders) who own or have owned, directly or indirectly, 5% or more of a corporation’s common stock or are otherwise treated as 5% stockholders under Section 382 and the United States Treasury Department regulations promulgated thereunder increase their aggregate percentage ownership of that corporation’s stock by more than 50 percentage points over the lowest percentage of the stock owned by these stockholders over the applicable testing period. In the event of an ownership change, Section 382 imposes an annual limitation on the amount of taxable income a corporation may offset with NOL carry forwards. This annual limitation is generally equal to the product of the value of the corporation’s stock on the date of the ownership change, multiplied by the long-term tax-exempt rate published monthly by the Internal Revenue Service. Any unused annual limitation may be carried over to later years until the applicable expiration date for the respective NOL carry forwards. We may have experienced an “ownership change” within the meaning of Section 382 in the past and there can be no assurance that we have not experienced additional ownership changes. As a result, our NOLs may be subject to limitations and we may be required to pay taxes earlier and in larger amounts than would be the case if our NOLs were freely usable. Any such limitation could have a material adverse effect on our results of operations in future years. We have not completed a study to assess whether an ownership change for purposes of Section 382 has occurred, or whether there have been multiple ownership changes since our inception, due to the significant costs and complexities associated with such a study.

Our internal computer systems, or those of our third-party clinical research organizations, licensees, collaborators or other contractors or consultants, may fail or suffer security breaches, which could result in a material disruption in our business and operations.

Despite the implementation of security measures, our internal computer systems and those of our current and future clinical research organizations, licensees, collaborators and other contractors and consultants are vulnerable to damage from computer viruses, unauthorized access, natural disasters, terrorism, war and telecommunication and electrical failures. While we are not aware of any such material system failure, accident or security breach to date, if such an event were to occur and cause interruptions in our operations, it could result in a material disruption of our development programs and our business operations. For example, the loss of clinical trial data from completed, ongoing or future clinical trials could result in delays in our regulatory approval efforts and significant costs to recover or reproduce the data. Likewise, we rely on third parties to manufacture our drug candidates and conduct clinical trials, and similar events relating to their computer systems could also have a material adverse effect on our business. To the extent that any disruption or security breach were to result in a loss of, or damage to, our data or applications, or inappropriate disclosure of confidential or proprietary information, we could incur liabilities and the further development and commercialization of our product candidates could be delayed.

We are highly reliant on our Chief Executive Officer, Chief Scientific Officer and other members of our management team. In addition, we have limited internal resources and if we fail to recruit and/or retain the services of key employees and external consultants as needed, we may not be able to achieve our strategic and operational objectives.

Both Garo H. Armen, Ph.D., the Chairman of our Board of Directors and our Chief Executive Officer who co-founded the Company in 1994, and Dr. Robert Stein, our Chief Scientific Officer who joined the Company in February 2014, are integral to building our company and developing our technology. If either Dr. Armen or Dr. Stein is unable or unwilling to continue his relationship with Agenus, our business may be adversely impacted.

Effective December 31, 2005 we entered into an employment agreement with Dr. Armen. Subject to the earlier termination as provided in the agreement, the agreement had an original term of one year and is automatically extended thereafter for successive terms of one year each, unless either party provides notice to the other at least ninety days prior to the expiration of the original or any extension term. We do not currently have an employment agreement with Dr. Stein. Dr. Armen and Dr. Stein play important roles in our day-to-day activities. We do not carry key employee insurance policies for Dr. Armen, Dr. Stein or any other employee.

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Our future growth success depends to a significant extent on the skills, experience and efforts of our executive officers and key members of our clinical and scientific staff. We face intense competition for qualified individuals from other pharmaceutical, biopharmaceutical and biotechnology companies, as well as academic and other research institutions. We may be unable to retain our current personnel or attract or assimilate other highly qualified management and clinical personnel in the future on acceptable terms. The loss of any or all of these individuals could harm our business and could impair our ability to support our collaboration with Incyte or to support our expected growth. If our management is unable to effectively manage our growth, our expenses may increase more than expected, our ability to generate revenue could be reduced and we may not be able to implement our business strategy.

We rely on a small staff of highly trained and experienced senior management and scientific, administrative and operations personnel and consultants to conduct our business in certain key areas of our organization.

Reduction in expenses and resulting changes to our compensation and benefit programs have reduced the competitiveness of these programs and thereby increased employee retention risk. The competition for qualified personnel in the biotechnology field is intense, and if we are not able to continue to attract and retain qualified personnel and/or maintain positive relationships with our outside consultants, we may not be able to achieve our strategic and operational objectives.

### Risks Related to Regulation of the Biopharmaceutical Industry

The drug development and approval process is uncertain, time-consuming, and expensive.

Clinical development, including pre-clinical testing and the process of obtaining and maintaining regulatory approvals for new therapeutic products, is lengthy, expensive, and uncertain. As of March 31, 2015, we have spent approximately 20 years and \$310.9 million on our research and development program in heat shock proteins for cancer. The development and regulatory approval process also can vary substantially based on the type, complexity, and novelty of the product. We must provide regulatory authorities with manufacturing, product characterization, and pre-clinical and clinical data demonstrating that our product candidates are safe and effective before they can be approved for commercial sale. It may take us many years to complete our testing, and failure can occur at any stage of testing. Interim results of pre-clinical studies or clinical trials do not necessarily predict their final results, and acceptable results in early studies might not be seen in later studies. Any pre-clinical or clinical test may fail to produce results satisfactory to regulatory authorities for many reasons, including but not limited to insufficient product characterization, poor study structure conduct or statistical analysis planning, failure to enroll a sufficient number of patients or failure to prospectively identify the most appropriate patient eligibility criteria, and collectability of data. Pre-clinical and clinical data can be interpreted in different ways, which could delay, limit, or prevent regulatory approval. Negative or inconclusive results from a pre-clinical study or clinical trial, adverse medical events during a clinical trial, or safety issues resulting from products of the same class of drug could require a pre-clinical study or clinical trial to be repeated or cause a program to be terminated, even if other studies or trials relating to the program are successful. We or the FDA, other regulatory agencies, or an institutional review board may suspend or terminate human clinical trials at any time on various grounds.

The timing and success of a clinical trial is dependent on obtaining and maintaining sufficient cash resources, successful production of clinical trial material, enrolling sufficient patients in a timely manner, avoiding serious or significant adverse patient reactions, and demonstrating efficacy of the product candidate in order to support a favorable risk versus benefit profile, among other considerations. The timing and success of our clinical trials, in particular, are also dependent on clinical sites and regulatory authorities accepting each trial's protocol, statistical analysis plan, product characterization tests, and clinical data. In addition, regulatory authorities may request additional information or data that is not readily available. Delays in our ability to respond to such requests would delay, and failure to adequately address concerns would prevent, our commercialization efforts. We have encountered in the past, and may encounter in the future, delays in initiating trial sites and enrolling patients into our clinical trials. Future enrollment delays will postpone the dates by which we expect to complete the impacted trials and the potential receipt of regulatory approval. There is no guarantee we will successfully initiate and/or complete our clinical trials.

Delays or difficulties in obtaining regulatory approvals or clearances for our product candidates may:

- adversely affect the marketing of any products we or our licensees or collaborators develop;
- impose significant additional costs on us or our licensees or collaborators;

- diminish any competitive advantages that we or our licensees or collaborators may attain;
- limit our ability to receive royalties and generate revenue and profits; and
- adversely affect our business prospects and ability to obtain financing.

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Delays or failures in our receiving regulatory approval for our product candidates in a timely manner may result in us having to incur additional development expense and subject us to having to secure additional financing. As a result, we may not be able to commercialize them in the time frame anticipated, and our business will suffer.

Even if we receive marketing approval for our product candidates, such product approvals could be subject to restrictions or withdrawals. Regulatory requirements are subject to change.

Regulatory authorities generally approve products for particular indications. If an approval is for a limited indication, this limitation reduces the size of the potential market for that product. Product approvals, once granted, are subject to continual review and periodic inspections by regulatory authorities. Our operations and practices are subject to regulation and scrutiny by the United States government, as well as governments of any other countries in which we do business or conduct activities. Later discovery of previously unknown problems or safety issues, and/or failure to comply with domestic or foreign laws, knowingly or unknowingly, can result in various adverse consequences, including, among other things, possible delay in approval or refusal to approve a product, warning letters, fines, injunctions, civil penalties, recalls or seizures of products, total or partial suspension of production, refusal of the government to renew marketing applications, complete withdrawal of a marketing application, and/or criminal prosecution, withdrawal of an approved product from the market, and/or exclusion from government health care programs. Such regulatory enforcement could have a direct and negative impact on the product for which approval is granted, but also could have a negative impact on the approval of any pending applications for marketing approval of new drugs or supplements to approved applications.

Because we are a company operating in a highly regulated industry, regulatory authorities could take enforcement action against us in connection with our, or our licensees or collaborators, business and marketing activities for various reasons. For example, the Foreign Corrupt Practices Act prohibits U.S. companies and their representatives from offering, promising, authorizing, or making payments to foreign governmental officials for the purpose of obtaining or retaining business abroad.

From time to time, new legislation is passed into law that could significantly change the statutory provisions governing the approval, manufacturing, and marketing of products regulated by the FDA and other foreign health authorities. Additionally, regulations and guidance are often revised or reinterpreted by health agencies in ways that may significantly affect our business and our products. It is impossible to predict whether further legislative changes will be enacted, or whether regulations, guidance, or interpretations will change, and what the impact of such changes, if any, may be. For example, the Patient Protection and Affordable Care Act and the Health Care and Education Affordability Reconciliation Act of 2010 (collectively, the “ACA”), enacted in March 2010, substantially changed the way healthcare is financed by both governmental and private insurers, and significantly impacted the pharmaceutical industry. With regard to pharmaceutical products, among other things, ACA is expected to expand and increase industry rebates for drugs covered under Medicaid programs and make changes to the coverage requirements under the Medicare D program. We expect both government and private health plans to continue to require healthcare providers, including healthcare providers that may one day purchase our products, to contain costs and demonstrate the value of the therapies they provide.

New data from our research and development activities, and/or resource considerations could modify our strategy and result in the need to adjust our projections of timelines and costs of programs.

Because we are focused on novel technologies, our research and development activities, including our nonclinical studies and clinical trials, involve the ongoing discovery of new facts and the generation of new data, based on which we determine next steps for a relevant program. These developments can occur with varying frequency and constitute the basis on which our business is conducted. We make determinations on an ongoing basis as to which of these facts or data will influence timelines and costs of programs. We may not always be able to make such judgments accurately, which may increase the costs we incur attempting to commercialize our product candidates. We monitor the likelihood of success of our initiatives and we may need to discontinue funding of such activities if they do not prove to be commercially feasible, due to our limited resources.

We may need to successfully address a number of technological challenges in order to complete development of our product candidates. Moreover, these product candidates may not be effective in treating any disease or may prove to have undesirable or unintended side effects, toxicities, or other characteristics that may preclude our obtaining

regulatory approvals or prevent or limit commercial use.

**Risks Related to Intellectual Property Rights**

If we are unable to obtain and enforce patent protection for our product candidates and related technology, our business could be materially harmed.

Issued patents may be challenged, narrowed, invalidated or circumvented. In addition, court decisions may introduce uncertainty in the enforceability or scope of patents owned by biotechnology companies. The legal systems of certain countries do not favor the aggressive enforcement of patents, and the laws of foreign countries may not allow us to protect our inventions with patents to the same extent as the laws of the United States. Because patent applications in the United States and many foreign jurisdictions are typically not published until 18 months after filing, or in some cases not at all, and because



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publications of discoveries in scientific literature lag behind actual discoveries, we cannot be certain that we were the first to make the inventions claimed in our issued patents or pending patent applications, or that we were the first to file for protection of the inventions set forth in our patents or patent applications. As a result, we may not be able to obtain or maintain protection for certain inventions. Therefore, the enforceability and scope of our patents in the United States and in foreign countries cannot be predicted with certainty and, as a result, any patents that we own or license may not provide sufficient protection against competitors. We may not be able to obtain or maintain patent protection from our pending patent applications, from those we may file in the future, or from those we may license from third parties. Moreover, even if we are able to obtain patent protection, such patent protection may be of insufficient scope to achieve our business objectives.

Furthermore, the product development timeline for biotechnology products is lengthy and it is possible that our issued patents covering our product candidates in the United States and other jurisdictions may expire prior to commercial launch.

Our strategy depends on our ability to identify and seek patent protection for our discoveries. This process is expensive and time consuming, and we may not be able to file and prosecute all necessary or desirable patent applications at a reasonable cost or in a timely manner or in all jurisdictions where protection may be commercially advantageous. Despite our efforts to protect our proprietary rights, unauthorized parties may be able to obtain and use information that we regard as proprietary. The issuance of a patent does not ensure that it is valid or enforceable, so even if we obtain patents, they may not be valid or enforceable against third parties. In addition, the issuance of a patent does not give us the right to practice the patented invention. Third parties may have blocking patents that could prevent us from marketing our own patented product and practicing our own patented technology.

The patent landscape in the field of therapeutic antibody development, manufacture and commercialization is crowded. For example, we are aware of third party patents directed to methods for identifying and producing therapeutic antibodies. We are also aware of third party patents directed to antibodies to numerous targets for which we also seek to identify, develop, and commercialize antibodies, including without limitation CTLA-4, PD-1, GITR, OX40, TIM-3, and LAG-3. For example, some patents claim antibodies based on competitive binding with existing antibodies, some claim antibodies based on specifying sequence or other structural information, and some claim various methods of discovery, production, or use of such antibodies. These or other third party patents could impact our freedom to operate in relation to our technology platforms, including Retrocyte Display and SECANT, as well as in relation to development and commercialization of antibodies identified by us as therapeutic candidates. As we discover and develop our candidate antibodies, we will continue to conduct analyses of these third party patents to determine whether we believe we might infringe them, and if so, whether they would be likely to be deemed valid and enforceable if challenged. If we determine that a license for a given patent or family of patents is necessary or desirable, there can be no guarantee that a license would be available on favorable terms, or at all. Inability to obtain a license on favorable terms, should such a license be determined to be necessary or desirable, could, without limitation, result in increased costs to design around the third party patents, delay product launch, or result in cancellation of the affected program or cessation of use of the affected technology.

Third parties may also seek to market biosimilar versions of any approved products. Alternatively, third parties may seek approval to market their own products similar to or otherwise competitive with our products. In these circumstances, we may need to defend and/or assert our patents, including by filing lawsuits alleging patent infringement. In any of these types of proceedings, a court or agency with jurisdiction may find our patents invalid and/or unenforceable. Even if we have valid and enforceable patents, these patents still may not provide protection against competing products or processes sufficient to achieve our business objectives.

We have ownership of or exclusive rights to approximately 60 issued United States patents and approximately 120 issued foreign patents. We also have ownership of or exclusive rights to approximately 13 pending United States patent applications and approximately 40 pending foreign patent applications. However, our patents may not protect us against our competitors. Our patent positions, and those of other pharmaceutical and biotechnology companies, are generally uncertain and involve complex legal, scientific, and factual questions. The standards which the United States Patent and Trademark Office, or USPTO, uses to grant patents, and the standards which courts use to interpret patents, are not always applied predictably or uniformly and can change, particularly as new technologies develop.

Consequently, the level of protection, if any, that will be provided by our patents if we attempt to enforce them, and they are challenged, is uncertain. In addition, the type and extent of patent claims that will be issued to us in the future is uncertain. Any patents that are issued may not contain claims that permit us to stop competitors from using similar technology.

Through our acquisitions of 4-AB and certain assets of Celexion, LLC, we also own a number of patents and patent applications directed to various methods and compositions, including methods for identifying therapeutic antibodies and product candidates arising out of such entities' technology platforms. In particular, we own patents and patent applications relating to Retrocyte Display technology platform, a high throughput antibody expression platform for the identification of fully-human and humanized monoclonal antibodies. This patent family is projected to expire between 2029 and 2031. We also own patents and patent applications relating to the SECANT platform, a platform used for the generation of novel monoclonal antibodies and efficient integration of drug targets such as CPMs. This patent family is projected to expire between 2028 and

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2029. In addition, as we advance our research and development efforts with our institutional and corporate collaborators, we intend to seek patent protection for newly-identified therapeutic antibodies and product candidates. We can provide no assurance that any of our patents, including the patents that were acquired along with 4-AB, will have commercial value, or that any of our existing or future patent applications, including the patent applications that were acquired with 4-AB, will result in the issuance of valid and enforceable patents.

The issued patents that cover the Prophage Series vaccines expire at various dates between 2015 and 2024. Our QS-21 Stimulon composition of matter patent family expired in 2008. Additional protection for QS-21 Stimulon in combination with other agents is provided by our other issued patents which expire between 2017 and 2022. We continue to explore means of extending the life cycle of our patent portfolio.

The patent position of pharmaceutical or biotechnology companies, including ours, is generally uncertain and involves complex legal and factual considerations. The standards which the USPTO and its foreign counterparts use to grant patents are not always applied predictably or uniformly and can change. There is also no uniform, worldwide policy regarding the subject matter and scope of claims granted or allowable in pharmaceutical or biotechnology patents. The laws of some foreign countries do not protect proprietary information to the same extent as the laws of the United States, and many companies have encountered significant problems and costs in protecting their proprietary information in these foreign countries. Outside the United States, patent protection must be sought in individual jurisdictions, further adding to the cost and uncertainty of obtaining adequate patent protection outside of the United States. Accordingly, we cannot predict whether additional patents protecting our technology will issue in the United States or in foreign jurisdictions, or whether any patents that do issue will have claims of adequate scope to provide competitive advantage. Moreover, we cannot predict whether third parties will be able to successfully obtain claims or the breadth of such claims. The allowance of broader claims may increase the incidence and cost of patent interference proceedings, opposition proceedings, post-grant review, inter partes review, and/or reexamination proceedings, the risk of infringement litigation, and the vulnerability of the claims to challenge. On the other hand, the allowance of narrower claims does not eliminate the potential for adversarial proceedings, and may fail to provide a competitive advantage. Our issued patents may not contain claims sufficiently broad to protect us against third parties with similar technologies or products, or provide us with any competitive advantage.

Our patent on QS-21 Stimulon composition of matter has expired and we rely primarily on unpatented technology and know-how to protect our rights to QS-21 Stimulon.

Our QS-21 Stimulon composition of matter patent family has expired, and our patent rights are limited to protecting certain combinations of QS-21 Stimulon with other adjuvants or formulations of QS-21 Stimulon with other agents, such as excipients that improve performance of the compound. However, there is no guarantee that a third party would necessarily choose to use QS-21 Stimulon in combination with such adjuvants or formulate it with the other agents covered by our patents. We are aware of other companies that claim to produce material comparable to QS-21 Stimulon. At least one other party has also developed derivatives of QS-21 that have shown biological activity. Although our licenses also rely on unpatented technology, know-how, and confidential information, these intellectual property rights may not be enforceable in certain jurisdictions, and we may not be able to collect anticipated revenue from our licensees. Any such inability would have a material adverse effect on our business, financial condition and results of operations.

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

Even after they have been issued, our patents and any patents which we license may be challenged, narrowed, invalidated or circumvented. If our patents are invalidated or otherwise limited or will expire prior to the commercialization of our product candidates, other companies may be better able to develop products that compete with ours, which could adversely affect our competitive business position, business prospects and financial condition. The following are examples of litigation and other adversarial proceedings or disputes that we could become a party to involving our patents or patents licensed to us:

• we or our collaborators may initiate litigation or other proceedings against third parties to enforce our patent rights;

third parties may initiate litigation or other proceedings seeking to invalidate patents owned by or licensed to us or to obtain a declaratory judgment that their product or technology does not infringe our patents or patents licensed to us;

third parties may initiate opposition proceedings, post-grant review, inter partes review, or reexamination proceedings challenging the validity or scope of our patent rights, requiring us or our collaborators and/or licensors to participate in such proceedings to defend the validity and scope of our patents;

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there may be a challenge or dispute regarding inventorship or ownership of patents currently identified as being owned by or licensed to us;

the USPTO may initiate an interference or derivation proceeding between patents or patent applications owned by or licensed to us and those of our competitors, requiring us or our collaborators and/or licensors to participate in an interference or derivation proceeding to determine the priority of invention, which could jeopardize our patent rights; or

third parties may seek approval to market biosimilar versions of our future approved products prior to expiration of relevant patents owned by or licensed to us, requiring us to defend our patents, including by filing lawsuits alleging patent infringement.

These lawsuits and proceedings would be costly and could affect our results of operations and divert the attention of our managerial and scientific personnel. There is a risk that a court or administrative body could decide that our patents are invalid or not infringed by a third party's activities, or that the scope of certain issued claims must be further limited. An adverse outcome in a litigation or proceeding involving our own patents could limit our ability to assert our patents against these or other competitors, affect our ability to receive royalties or other licensing consideration from our licensees, and may curtail or preclude our ability to exclude third parties from making, using and selling similar or competitive products. Any of these occurrences could adversely affect our competitive business position, business prospects and financial condition.

The degree of future protection for our proprietary rights is uncertain because legal means afford only limited protection and may not adequately protect our rights or permit us to gain or keep our competitive advantage. For example:

others may be able to develop a platform that is similar to, or better than, ours in a way that is not covered by the claims of our patents;

others may be able to make compounds that are similar to our product candidates but that are not covered by the claims of our patents;

we might not have been the first to make the inventions covered by patents or pending patent applications;

we might not have been the first to file patent applications for these inventions;

any patents that we obtain may not provide us with any competitive advantages or may ultimately be found invalid or unenforceable; or

we may not develop additional proprietary technologies that are patentable.

Our commercial success depends significantly on our ability to operate without infringing the patents and other proprietary rights of third parties.

Our success will depend in part on our ability to operate without infringing the proprietary rights of third parties. Other entities may have or obtain patents or proprietary rights that could limit our ability to make, use, sell, offer for sale or import our future approved products or impair our competitive position. In particular the patent landscape around the discovery, development, manufacture and commercial use of our six pre-clinical CPM antibody programs and therapeutic antibodies is crowded.

Patents that we own may ultimately be found to infringe patents issued to third parties. Third parties may have or obtain valid and enforceable patents or proprietary rights that could block us from developing product candidates using our technology. Our failure to obtain a license to any technology that we require may materially harm our business, financial condition and results of operations. Moreover, our failure to maintain a license to any technology that we require may also materially harm our business, financial condition, and results of operations. Furthermore, we

would be exposed to a threat of litigation.

In the biopharmaceutical industry, significant litigation and other proceedings regarding patents, patent applications, trademarks and other intellectual property rights have become commonplace. The types of situations in which we may become a party to such litigation or proceedings include:

we or our collaborators may initiate litigation or other proceedings against third parties seeking to invalidate the patents held by those third parties or to obtain a judgment that our products or processes do not infringe those third parties' patents;

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if our competitors file patent applications that claim technology also claimed by us or our licensors, we or our licensors may be required to participate in interference, derivation or other proceedings to determine the priority of invention, which could jeopardize our patent rights and potentially provide a third party with a dominant patent position;

if third parties initiate litigation claiming that our processes or products infringe their patent or other intellectual property rights, we and our collaborators will need to defend against such proceedings; and

if a license to necessary technology is terminated, the licensor may initiate litigation claiming that our processes or products infringe or misappropriate their patent or other intellectual property rights and/or that we breached our obligations under the license agreement, and we and our collaborators would need to defend against such proceedings. These lawsuits would be costly and could affect our results of operations and divert the attention of our management and scientific personnel. There is a risk that a court would decide that we or our collaborators are infringing the third party's patents and would order us or our collaborators to stop the activities covered by the patents. In that event, we or our collaborators may not have a viable alternative to the technology protected by the patent and may need to halt work on the affected product candidate or cease commercialization of an approved product. In addition, there is a risk that a court will order us or our collaborators to pay the other party damages. An adverse outcome in any litigation or other proceeding could subject us to significant liabilities to third parties and require us to cease using the technology that is at issue or to license the technology from third parties. We may not be able to obtain any required licenses on commercially acceptable terms or at all. Any of these outcomes could have a material adverse effect on our business. The biopharmaceutical industry has produced a significant number of patents, and it may not always be clear to industry participants, including us, which patents cover various types of products or methods of use. The coverage of patents is subject to interpretation by the courts, and the interpretation is not always uniform or predictable. If we are sued for patent infringement, we would need to demonstrate that our products or methods either do not infringe the patent claims of the relevant patent or that the patent claims are invalid, and we may not be able to do this. Proving invalidity is difficult. For example, in the United States, proving invalidity requires a showing of clear and convincing evidence to overcome the presumption of validity enjoyed by issued patents. Even if we are successful in these proceedings, we may incur substantial costs and divert management's time and attention in pursuing these proceedings, which could have a material adverse effect on us. If we are unable to avoid infringing the patent rights of others, we may be required to seek a license, defend an infringement action or challenge the validity of the patents in court. Patent litigation is costly and time consuming. We may not have sufficient resources to bring these actions to a successful conclusion. In addition, if we do not obtain a license, develop or obtain non-infringing technology, fail to defend an infringement action successfully or have infringed patents declared invalid, we may incur substantial monetary damages, encounter significant delays in bringing our product candidates to market and be precluded from manufacturing or selling our product candidates.

The cost of any patent litigation or other proceeding, even if resolved in our favor, could be substantial. Some of our competitors may be able to sustain the cost of such litigation and proceedings more effectively than we can because of their substantially greater resources. Uncertainties resulting from the initiation and continuation of patent litigation or other proceedings could have a material adverse effect on our ability to compete in the marketplace. Patent litigation and other proceedings may also absorb significant management time.

If we fail to comply with our obligations under our intellectual property licenses with third parties, we could lose license rights that are important to our business.

We are currently party to various intellectual property license agreements. These license agreements impose, and we expect that future license agreements may impose, various diligence, milestone payment, royalty, insurance and other obligations on us. These licenses typically include an obligation to pay an upfront payment, yearly maintenance payments and royalties on sales. If we fail to comply with our obligations under the licenses, the licensors may have the right to terminate their respective license agreements, in which event we might not be able to market any product that is covered by the agreements. Termination of the license agreements or reduction or elimination of our licensed rights may result in our having to negotiate new or reinstated licenses with less favorable terms, which could

adversely affect our competitive business position and harm our business.

If we are unable to protect the confidentiality of our proprietary information, the value of our technology and products could be adversely affected.

In addition to patent protection, we also rely on other proprietary rights, including protection of trade secrets, and other proprietary information. To maintain the confidentiality of trade secrets and proprietary information, we enter into confidentiality agreements with our employees, consultants, collaborators and others upon the commencement of their relationships with us. These agreements require that all confidential information developed by the individual or made known to the individual by us during the course of the individual's relationship with us be kept confidential and not disclosed to third



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parties. Our agreements with employees and our personnel policies also provide that any inventions conceived by the individual in the course of rendering services to us shall be our exclusive property. However, we may not obtain these agreements in all circumstances, and individuals with whom we have these agreements may not comply with their terms. Thus, despite such agreement, such inventions may become assigned to third parties. In the event of unauthorized use or disclosure of our trade secrets or proprietary information, these agreements, even if obtained, may not provide meaningful protection, particularly for our trade secrets or other confidential information. To the extent that our employees, consultants or contractors use technology or know-how owned by third parties in their work for us, disputes may arise between us and those third parties as to the rights in related inventions. To the extent that an individual who is not obligated to assign rights in intellectual property to us is rightfully an inventor of intellectual property, we may need to obtain an assignment or a license to that intellectual property from that individual, or a third party or from that individual's assignee. Such assignment or license may not be available on commercially reasonable terms or at all.

Adequate remedies may not exist in the event of unauthorized use or disclosure of our proprietary information. The disclosure of our trade secrets would impair our competitive position and may materially harm our business, financial condition and results of operations. Costly and time consuming litigation could be necessary to enforce and determine the scope of our proprietary rights, and failure to maintain trade secret protection could adversely affect our competitive business position. In addition, others may independently discover or develop our trade secrets and proprietary information, and the existence of our own trade secrets affords no protection against such independent discovery.

As is common in the biopharmaceutical industry, we employ individuals who were previously or concurrently employed at research institutions and/or other biotechnology or pharmaceutical companies, including our competitors or potential competitors. We may be subject to claims that these employees, or we, have inadvertently or otherwise used or disclosed trade secrets or other proprietary information of their former employers, or that patents and applications we have filed to protect inventions of these employees, even those related to one or more of our product candidates, are rightfully owned by their former or concurrent employer. Litigation may be necessary to defend against these claims. Even if we are successful in defending against these claims, litigation could result in substantial costs and be a distraction to management.

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

Periodic maintenance fees, renewal fees, annuity fees and various other governmental fees on patents and/or applications will be due to the USPTO and various foreign patent offices at various points over the lifetime of our patents and/or applications. We have systems in place to remind us to pay these fees, and we rely on our outside counsel or service providers to pay these fees when due. Additionally, the USPTO and various foreign patent offices require compliance with a number of procedural, documentary, fee payment and other similar provisions during the patent application process. We employ reputable law firms and other professionals to help us comply, and in many cases, an inadvertent lapse can be cured by payment of a late fee or by other means in accordance with rules applicable to the particular jurisdiction. However, there are situations in which noncompliance can result in abandonment or lapse of the patent or patent application, resulting in partial or complete loss of patent rights in the relevant jurisdiction. If such an event were to occur, it could have a material adverse effect on our business. In addition, we are responsible for the payment of patent fees for patent rights that we have licensed from other parties. If any licensor of these patents does not itself elect to make these payments, and we fail to do so, we may be liable to the licensor for any costs and consequences of any resulting loss of patent rights.

### Risks Related to Litigation

We may face litigation that could result in substantial damages and may divert management's time and attention from our business.

From time to time we may become a party to legal proceedings, claims and investigations that arise in the ordinary course of business such as, but not limited to, patent, employment, commercial and environmental matters. While we currently believe that the ultimate outcome of any of these proceedings will not have a material adverse effect on our

financial position, results of operations, or liquidity, litigation is subject to inherent uncertainty. Furthermore, litigation consumes both cash and management attention.

We maintain property and general commercial insurance coverage as well as errors and omissions and directors and officers insurance policies. This insurance coverage may not be sufficient to cover us for future claims.

We are also exposed to the risk of employee fraud or other misconduct. Misconduct by employees could include intentional failures to comply with FDA regulations, to provide accurate information to the FDA, to comply with manufacturing standards we have established, to comply with federal and state health-care fraud and abuse laws and regulations, to report financial information or data accurately or to disclose unauthorized activities to us. In particular, sales, marketing and business arrangements in the healthcare industry are subject to extensive laws and regulations intended to prevent fraud, kickbacks, self-

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dealing and other abusive practices. These laws and regulations may restrict or prohibit a wide range of pricing, discounting, marketing and promotion, sales commission, customer incentive programs and other business arrangements.

Employee misconduct could also involve the improper use of information obtained in the course of clinical trials, which could result in regulatory sanctions and serious harm to our reputation. In addition, during the course of our operations, our directors, executives and employees may have access to material, nonpublic information regarding our business, our results of operations or potential transactions we are considering. We may not be able to prevent a director, executive or employee from trading in our common stock on the basis of, or while having access to, material, nonpublic information. If a director, executive or employee was to be investigated, or an action was to be brought against a director, executive or employee for insider trading, it could have a negative impact on our reputation and our stock price. Such a claim, with or without merit, could also result in substantial expenditures of time and money, and divert attention of our management team.

Product liability and other claims against us may reduce demand for our products and/or result in substantial damages. We face an inherent risk of product liability exposure related to testing our product candidates in human clinical trials and may face even greater risks if we sell Oncophage® in Russia or our other product candidates commercially. An individual may bring a product liability claim against us if one of our product candidates causes, or merely appears to have caused, an injury. Product liability claims may result in:

- decreased demand for our product candidates;
- regulatory investigations;
- injury to our reputation;
- withdrawal of clinical trial volunteers;
- costs of related litigation; and
- substantial monetary awards to plaintiffs.

We manufacture the Prophage Series vaccines from a patient's cancer cells, and medical professionals must inject the vaccines into the same patient from which they were manufactured. A patient may sue us if a hospital, a shipping company, or we fail to receive the removed cancer tissue or deliver that patient's vaccine. We anticipate that the logistics of shipping will become more complex if the number of patients we treat increases and that shipments of tumor and/or vaccines may be lost, delayed, or damaged. Additionally, complexities unique to the logistics of commercial products may delay shipments and limit our ability to move commercial product in an efficient manner without incident. We do not have any other insurance that covers loss of or damage to the Prophage Series vaccines or tumor material, and we do not know whether such insurance will be available to us at a reasonable price or at all. We have limited product liability coverage for use of our product candidates. Our product liability policy provides \$10.0 million aggregate coverage and \$10.0 million per occurrence coverage. This limited insurance coverage may be insufficient to fully cover us for future claims.

We are also subject to laws generally applicable to businesses, including but not limited to, federal, state and local wage and hour, employee classification, mandatory healthcare benefits, unlawful workplace discrimination and whistle-blowing. Any actual or alleged failure to comply with any regulation applicable to our business or any whistle-blowing claim, even if without merit, could result in costly litigation, regulatory action or otherwise harm our business, results of operations, financial condition, cash flow and future prospects.

If we do not comply with environmental laws and regulations, we may incur significant costs and potential disruption to our business.

We use or may use hazardous, infectious, and radioactive materials, and recombinant DNA in our operations, which have the potential of being harmful to human health and safety or the environment. We store these hazardous (flammable, corrosive, toxic), infectious, and radioactive materials, and various wastes resulting from their use, at our facilities pending use and ultimate disposal. We are subject to a variety of federal, state, and local laws and regulations governing use, generation, storage, handling, and disposal of these materials. We may incur significant costs complying with both current and future environmental health and safety laws and regulations. In particular, we are subject to regulation by the Occupational Safety and Health Administration, the Environmental Protection Agency, the Drug Enforcement Agency, the Department of Transportation, the Centers for Disease Control and Prevention, the

National Institutes of Health, the International Air Transportation Association, and various state and local agencies. At any time, one or more of the aforementioned agencies could adopt regulations that may affect our operations. We are also subject to regulation under the Toxic Substances Control Act and the Resource Conservation Development programs.

Although we believe that our current procedures and programs for handling, storage, and disposal of these materials comply with federal, state, and local laws and regulations, we cannot eliminate the risk of accidents involving contamination from these materials. Although we have a workers' compensation liability policy, we could be held liable for resulting damages

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in the event of an accident or accidental release, and such damages could be substantially in excess of any available insurance coverage and could substantially disrupt our business.

### Risks Related to our Common Stock

Provisions in our organizational documents could prevent or frustrate attempts by stockholders to replace our current management.

Our certificate of incorporation and bylaws contain provisions that could make it more difficult for a third party to acquire us without the consent of our Board of Directors. Our certificate of incorporation provides for a staggered board and removal of directors only for cause. Accordingly, stockholders may elect only a minority of our Board at any annual meeting, which may have the effect of delaying or preventing changes in management. In addition, under our certificate of incorporation, our Board of Directors may issue additional shares of preferred stock and determine the terms of those shares of stock without any further action by our stockholders. Our issuance of additional preferred stock could make it more difficult for a third party to acquire a majority of our outstanding voting stock and thereby effect a change in the composition of our Board of Directors. Our certificate of incorporation also provides that our stockholders may not take action by written consent. Our bylaws require advance notice of stockholder proposals and director nominations and permit only our president or a majority of the Board of Directors to call a special stockholder meeting. These provisions may have the effect of preventing or hindering attempts by our stockholders to replace our current management. In addition, Delaware law prohibits a corporation from engaging in a business combination with any holder of 15% or more of its capital stock until the holder has held the stock for three years unless, among other possibilities, the board of directors approves the transaction. Our Board of Directors may use this provision to prevent changes in our management. Also, under applicable Delaware law, our Board of Directors may adopt additional anti-takeover measures in the future.

The first right to negotiate provision contained in our agreement with one of our licensees could hinder or delay a change of control of our company or the sale of certain of our assets.

We have entered into a First Right to Negotiate and Amendment Agreement with GSK that affords GSK, one of our licensees, a first right to negotiate with us in the event we determine to initiate a process to effect a change of control of our company with, or to sell certain of our assets to, an unaffiliated third party or in the event that a third party commences an unsolicited tender offer seeking a change of control of our company. In such event, we must provide GSK a period of time to determine whether it wishes to negotiate the terms of such a transaction with us. If GSK affirmatively so elects, we are required to negotiate with GSK in good faith towards effecting a transaction of that nature for a specified period. During the negotiation period, we are obligated not to enter into a definitive agreement with a third party that would preclude us from negotiating and/or executing a definitive agreement with GSK. If GSK determines not to negotiate with us or we are unable to come to an agreement with GSK during this period, we may enter into the specified change of control or sale transaction within the following 12 months, provided that such a transaction is not on terms in the aggregate that are materially less favorable to us and our stockholders (as determined by our Board of Directors, in its reasonable discretion) than terms last offered to us by GSK in a binding written proposal during the negotiation period. The first right to negotiate terminates on March 2, 2017. Although GSK's first right to negotiate does not compel us to enter into a transaction with GSK nor prevent us from negotiating with or entering into a transaction with a third party, the first right to negotiate could inhibit a third party from engaging in discussions with us concerning such a transaction or delay our ability to effect such a transaction with a third party.

Our stock has historically had low trading volume, and its public trading price has been volatile.

For the period from our initial public offering on February 4, 2000 to March 31, 2015, and for the three months ended March 31, 2015, the closing price of our common stock has fluctuated between \$1.80 (or \$0.30 pre-reverse stock split) and \$315.78 (or \$52.63 pre-reverse stock split) per share and \$3.91 and \$6.17 per share, respectively. The average daily trading volume for the three months ended March 31, 2015 was approximately 2,176,000 shares while the average daily trading volume for the year ended December 31, 2014 was approximately 728,000. The market may experience significant price and volume fluctuations that are often unrelated to the operating performance of individual companies. In addition to general market volatility, many factors may have a significant adverse effect on the market price of our stock, including:

- continuing operating losses, which we expect over the next several years as we continue our development activities;

- announcements of decisions made by public officials;
- results of our pre-clinical studies and clinical trials;
- announcements of new collaboration agreements with strategic partners or developments by our existing collaborative partners;
- announcements of acquisitions;

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• announcements of technological innovations, new commercial products, failures of products, or progress toward commercialization by our competitors or peers;

• failure to realize the anticipated benefits of acquisitions, including our acquisition of 4-AB and certain assets from Celexion, LLC;

• developments concerning proprietary rights, including patent and litigation matters;

• publicity regarding actual or potential results with respect to product candidates under development;

• quarterly fluctuations in our financial results;

• variations in the level of expenses related to any of our product candidates or clinical development programs;

• additions or departures of key management or scientific personnel;

• conditions or trends in the biotechnology and biopharmaceutical industries;

• other events or factors, including those resulting from war, incidents of terrorism, natural disasters or responses to these events;

• changes in accounting principles;

• general economic and market conditions and other factors that may be unrelated to our operating performance or the operating performance of our competitors, including changes in market valuations of similar companies; and

• sales of common stock by us or our stockholders in the future, as well as the overall trading volume of our common stock.

In the past, securities class action litigation has often been brought against a company following a significant decline in the market price of its securities. This risk is especially relevant for us because biotechnology and pharmaceutical companies generally experience significant stock price volatility.

The trading market for our common stock will depend in part on the research and reports that securities or industry analysts publish about us or our business. If one or more of the analysts who covers us downgrades our stock, or publishes inaccurate or unfavorable research about our business, our stock price would likely decline. If one or more of these analysts ceases coverage of us or fails to publish reports on us regularly, demand for our stock could decrease, which could cause our stock price and trading volume to decline.

The sale of a significant number of shares could cause the market price of our stock to decline.

The sale by us or the resale by stockholders of a significant number of shares of our common stock could cause the market price of our common stock to decline. As of March 31, 2015, we had 70,836,180 shares of common stock outstanding. All of these shares are eligible for sale on Nasdaq, although certain of the shares are subject to sales volume and other limitations. As of March 31, 2015, we had filed registration statements to permit the sale of approximately 12,200,000 shares of common stock under our equity incentive plans. We have also filed registration statements to permit the sale of approximately 167,000 shares of common stock under our employee stock purchase plan, to permit the sale of 225,000 shares of common stock under our Directors' Deferred Compensation Plan, to permit the sale of approximately 8,274,000 shares of common stock pursuant to various private placement agreements and to permit the sale of approximately 10,000,000 shares of our common stock pursuant to our At Market Issuance Sales Agreement. As of March 31, 2015, an aggregate of approximately 22.0 million of these shares remain available for sale. Contingent milestone payments, payable in cash or shares of our common stock at our option, will be due to the former shareholders of 4-AB as follows (i) \$10 million upon our market capitalization exceeding \$750 million for 30 consecutive trading days prior to the earliest of (a) the tenth anniversary of the Closing Date (b) the sale of 4-AB or (c) the sale of Agenus and (ii) \$10 million upon our market capitalization exceeding \$1.0 billion for 30 consecutive trading days prior to the earliest of (a) the tenth anniversary of the Closing Date, (b) the sale of 4-AB or (c) the sale of Agenus. In addition, as additional consideration for purchased assets, we agreed to pay to Celexion \$4.0 million on each of the 12-month and 24-month anniversaries of the Closing Date payable at our discretion in cash, shares of our common stock, or any combination thereof. We intend to file one or more registration statements covering the resale of shares of our common stock held by certain of our stockholders or investors in 2015. We are also obligated to file registration statements covering any additional shares that may be issued to Celexion in the future pursuant to the terms of our agreement with Celexion.

As of March 31, 2015, warrants to purchase approximately 4,351,450 shares of our common stock with a weighted average exercise price per share of \$9.01 were outstanding.

As of March 31, 2015, options to purchase 7,834,555 shares of our common stock with a weighted average exercise price per share of \$4.56 were outstanding. These options are subject to vesting that occurs over a period of up to four years following the date of grant. As of March 31, 2015 we have 67,578 nonvested shares outstanding.



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We may issue additional common stock, preferred stock, restricted stock units, or securities convertible into or exchangeable for our common stock. Furthermore, substantially all shares of common stock for which our outstanding stock options or warrants are exercisable are, once they have been purchased, eligible for immediate sale in the public market. The issuance of additional common stock, preferred stock, restricted stock units, or securities convertible into or exchangeable for our common stock or the exercise of stock options or warrants would dilute existing investors and could adversely affect the price of our securities. In addition, such securities may have rights senior to the rights of securities held by existing investors.

We do not intend to pay dividends on our common stock and, consequently your ability to obtain a return on your investment will depend on appreciation in the price of our common stock.

We have never declared or paid any cash dividend on our common stock and do not intend to do so in the foreseeable future. We currently anticipate that we will retain future earnings for the development, operation and expansion of our business. Therefore, the success of an investment in shares of our common stock will depend upon any future appreciation in their value. There is no guarantee that shares of our common stock will appreciate in value or maintain their current value.

Failure to maintain effective internal controls in accordance with Section 404 of the Sarbanes-Oxley Act of 2002 and to comply with changing regulation of corporate governance and public disclosure could have a material adverse effect on our operating results and the price of our common stock.

The Sarbanes-Oxley Act of 2002 and rules adopted by the SEC and Nasdaq have resulted in significant costs to us. In particular, our efforts to comply with Section 404 of the Sarbanes-Oxley Act of 2002 and related regulations regarding the required assessment of our internal control over financial reporting, and our independent registered public accounting firm's audit of internal control over financial reporting, have required commitments of significant management time. We expect these commitments to continue.

Our internal control over financial reporting (as defined in Rules 13a-15 of the Exchange Act) is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of our consolidated financial statements for external purposes in accordance with U.S. GAAP. Because of its inherent limitations, internal control over financial reporting may not prevent or detect all deficiencies or weaknesses in our financial reporting. While our management has concluded that there were no material weaknesses in our internal control over financial reporting as of December 31, 2014, our procedures are subject to the risk that our controls may become inadequate because of changes in conditions or as a result of a deterioration in compliance with such procedures. No assurance is given that our procedures and processes for detecting weaknesses in our internal control over financial reporting will be effective.

We anticipate additional commitments of management time to ensure that our internal control over financial reporting of the operations of 4-AB complies with Section 404 of the Sarbanes-Oxley Act of 2002. Prior to the acquisition, 4-AB was a privately held company organized under the laws of Switzerland and, as such, it had not been subject to financial reporting requirements applicable to public companies and was not required to prepare and publish audited financial statements in accordance with U.S. GAAP. Accordingly, our on-going efforts to ensure that our internal control over the financial reporting of the operations of 4-AB will cause us to incur significant additional costs. Changing laws, regulations and standards relating to corporate governance and public disclosure, are creating uncertainty for companies. Laws, regulations and standards are subject to varying interpretations in some cases due to their lack of specificity, and as a result, their application in practice may evolve over time as new guidance is provided, which could result in continuing uncertainty regarding compliance matters and higher costs caused by ongoing revisions to disclosure and governance practices. If we fail to comply with these laws, regulations and standards, our reputation may be harmed and we might be subject to sanctions or investigation by regulatory authorities, such as the SEC. Any such action could adversely affect our operating results and the market price of our common stock.

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

On January 10, 2014, we entered into a share exchange agreement (the "Share Exchange Agreement") with 4-Antibody AG, a joint stock company formed under the laws of Switzerland ("4-AB"), the former shareholders of 4-AB, and

Vischer AG, as Representative, pursuant to which we acquired all of the outstanding capital stock of 4-AB from the former shareholders of 4-AB in an all-stock transaction that closed in February 2014. Pursuant to the terms of the Share Exchange Agreement, we agreed to assume certain of 4-AB's pre-closing obligations, including the payment of exit bonuses to certain employees and former shareholders of 4-AB upon the achievement of milestone events contemplated by the Share Exchange Agreement. In January 2015, the first contingent milestone was met, and we were obligated to pay an aggregate of \$20.0 million to the former shareholders of 4-AB, certain 4-AB advisors and employees. Three of the individuals entitled to payments resulting from the first contingent milestone elected to receive their payments in shares of our common stock. Accordingly, on March 30, 2015, we issued 50,596 shares of our common stock (the "Exit Bonus Shares") to these individuals valued at an aggregate of approximately \$217,000, or approximately \$4.28 per share.

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The issuance of the Exit Bonus Shares was not registered under the Securities Act of 1933, as amended (the "Securities Act") in reliance upon the exemptions from registration provided by Regulation S promulgated under the Securities Act, based on representations from the recipients that they are not "U.S. persons" within the meaning of Rule 902 of Regulation S, Section (4)2 of the Securities Act, because the transaction did not involve any public offering.

Item 6. Exhibits

The Exhibits listed in the Exhibit Index are included in this Quarterly Report on Form 10-Q.

(b) Exhibits

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AGENUS INC.  
SIGNATURES

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

Date: May 1, 2015

AGENUS INC.

/s/ CHRISTINE M. KLASKIN

Christine M. Klaskin

VP, Finance, Principal Financial Officer, Principal Accounting Officer

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Exhibit Index

| Exhibit No. | Description   |
|-------------|---|
| 3.1         | Amended and Restated Certificate of Incorporation of Antigenics Inc. Filed as Exhibit 3.1 to our Current Report on Form 8-K (File No. 000-29089) filed on June 10, 2002 and incorporated herein by reference.   |
| 3.1.1       | Certificate of Amendment to the Amended and Restated Certificate of Incorporation of Antigenics Inc. Filed as Exhibit 3.1 to our Current Report on Form 8-K (File No. 000-29089) filed on June 11, 2007 and incorporated herein by reference.   |
| 3.1.2       | Certificate of Ownership and Merger changing the name of the corporation to Agenus Inc. Filed as Exhibit 3.1 to our Current Report on Form 8-K (File No. 000-29089) filed on January 6, 2011 and incorporated herein by reference.  |
| 3.1.3       | Certificate of Second Amendment to the Amended and Restated Certificate of Incorporation of Agenus Inc. Filed as Exhibit 3.1 to our Current Report on Form 8-K (File No. 000-29089) filed on September 30, 2011 and incorporated herein by reference.   |
| 3.1.4       | Certificate of Third Amendment to the Amended and Restated Certificate of Incorporation of Agenus Inc. Filed as Exhibit 3.1.4 to our Quarterly Report on Form 10-Q (File No. 000-29089) for the quarter ended June 30, 2012 and incorporated herein by reference.   |
| 3.1.5       | Certificate of Fourth Amendment to the Amended and Restated Certificate of Incorporation of Agenus Inc. Filed as Exhibit 3.1 to our Current Report on Form 8-K (File No. 000-29089) filed on April 25, 2014 and incorporated herein by reference.   |
| 3.2         | Fifth Amended and Restated By-laws of Agenus Inc. Filed as Exhibit 3.2 to our Current Report on Form 8-K (File No. 000-29089) filed on January 6, 2011 and incorporated herein by reference.  |
| 3.3         | Certificate of Designation, Preferences and Rights of the Series A Convertible Preferred Stock of Agenus Inc. filed with the Secretary of State of the State of Delaware on September 24, 2003. Filed as Exhibit 3.1 to our Current Report on Form 8-K (File No. 000-29089) filed on September 25, 2003 and incorporated herein by reference. |
| 3.4         | Certificate of Designations, Preferences and Rights of the Class B Convertible Preferred Stock of Agenus Inc. Filed as Exhibit 3.1 to our Current Report on Form 8-K (File No. 000-29089) filed on September 5, 2007 and incorporated herein by reference.  |
| 3.5         | Certificate of Designations, Preferences and Rights of the Series A-1 Convertible Preferred Stock of Agenus Inc. Filed as Exhibit 3.1 to our Current Report on Form 8-K (File No. 000-29089) filed on February 5, 2013 and incorporated herein by reference.  |
| 4.1         | Stock Purchase Agreement dated as of January 9, 2015, by and between Agenus Inc. and Incyte Corporation. Filed as Exhibit 4.21 to our Annual Report on Form 10-K (File No. 000-29089) for the year ended December 31, 2014 and incorporated herein by reference.  |

- 4.2(1) Amended and Restated Note Purchase Agreement dated as of February 20, 2015, as amended, by and between Agenus Inc. and the Purchasers listed on Schedule 1.1 thereto. Filed herewith.
- 4.3 Form of Senior Subordinated Note under the Amended and Restated Note Purchase Agreement dated as of February 20, 2015, as amended, by and between Agenus Inc. and the Purchasers listed on Schedule 1.1 thereto. Filed herewith.
- 4.4 Form of Warrant under the Amended and Restated Note Purchase Agreement dated as of February 20, 2015, as amended, by and between Agenus Inc. and the Purchasers listed on Schedule 1.1 thereto. Filed herewith.
- 10.1(1) License, Development and Commercialization Agreement dated as of January 9, 2015 by and among Agenus Inc., 4-Antibody AG, a limited liability company organized under the laws of Switzerland (and wholly-owned subsidiary of Agenus Inc.), Incyte Corporation and Incyte Europe Sarl, a Swiss limited liability company (and wholly-owned subsidiary of Incyte Corporation). Filed as Exhibit 10.22 to our Annual Report on Form 10-K (File No. 000-29089) for the year ended December 31, 2014 and incorporated herein by reference.
- 31.1 Certification of Principal Executive Officer pursuant to Rules 13a-14(a) and 15d-14(a) under the Securities Exchange Act of 1934, as amended. Filed herewith.

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|---------|---|
| 31.2    | Certification of Principal Financial Officer pursuant to Rules 13a-14(a) and 15d-14(a) under the Securities Exchange Act of 1934, as amended. Filed herewith.   |
| 32.1    | Certification of Principal Executive Officer and Principal Financial Officer pursuant to 18 U.S.C. Section 1350 as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002. Submitted herewith. |
| 101.INS | XBRL Instance Document  |
| 101.SCH | XBRL Taxonomy Extension Schema Document   |
| 101.CAL | XBRL Calculation Linkbase Document  |
| 101.DEF | XBRL Taxonomy Extension Definition Linkbase Document  |
| 101.LAB | XBRL Label Linkbase Document  |
| 101.PRE | XBRL Taxonomy Presentation Linkbase Document  |

(1) Certain confidential material contained in the document has been omitted and filed separately with the Securities and Exchange Commission pursuant to Rule 406 of the Securities Act or Rule 24b -2 of the Securities Exchange Act.