

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549**

FORM 10-K

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

For the fiscal year ended December 31, 2014

Or

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

Commission File Number 033-80623

OncoGenex Pharmaceuticals, Inc.

(Exact name of the registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation or organization)

95-4343413
(I.R.S. Employer
Identification No.)

19820 North Creek Parkway, Bothell, Washington 98011
(Address of principal executive offices, including zip code)

(425) 686-1500
(Registrant's telephone number, including area code)

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

<u>Title of Each Class</u>	<u>Name of Exchange on Which Registered</u>
Common Stock, par value \$0.001 per share	The NASDAQ Capital Market

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

None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes No

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or 15(d) of the Act. Yes 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 report), 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 Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§ 232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes No

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K is not contained herein, and will not be contained, to the best of the registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K.

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	<input type="checkbox"/> Accelerated filer	<input type="checkbox"/>
Non-accelerated filer	<input type="checkbox"/> Smaller reporting company	<input checked="" type="checkbox"/>

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

As of June 30, 2014, the aggregate market value of the registrant's Common Stock held by non-affiliates of the registrant was \$48,992,133. As of March 26, 2015, 22,679,086 shares of the registrant's Common Stock were outstanding.

DOCUMENTS INCORPORATED BY REFERENCE

Portions of the registrant's definitive Proxy Statement to be filed with the Securities and Exchange Commission not later than April 30, 2015, in connection with the solicitation of proxies for its 2015 Annual Meeting of Stockholders, are incorporated by reference into Items 10, 11, 12, 13 and 14 of Part III hereof.

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PART I

References in this Form 10-K to “OncoGenex Pharmaceuticals,” “OncoGenex,” the “Company,” “we,” “us” or “our” refer to OncoGenex Pharmaceuticals, Inc. and its wholly owned subsidiaries. The information in this Annual Report on Form 10-K contains certain forward-looking statements, including statements related to clinical trials, regulatory approvals, markets for our products, new product development, capital requirements and trends in our business that involve risks and uncertainties. Our actual results may differ materially from the results discussed in the forward-looking statements. Factors that might cause such a difference include those discussed in “Business,” “Risk Factors” and “Management’s Discussion and Analysis of Financial Condition and Results of Operations,” as well as those discussed elsewhere in this Annual Report on Form 10-K.

ITEM 1. BUSINESS

OVERVIEW OF OUR BUSINESS

We are an emerging leader in next generation cancer therapeutics. Our mission is to accelerate transformative therapies to improve the lives of people living with cancer and other serious diseases. We have developed a pipeline of late-stage product candidates that are designed to block the production of specific proteins that promote treatment resistance in cancer. OncoGenex’ first-in-class, innovative therapies have the potential to redefine treatment outcomes in a variety of cancers. We have three product candidates in our pipeline: custirsen, apatorsen and OGX-225, each of which has a distinct mechanism of action and represents a unique opportunity for cancer drug development. Of the product candidates in our pipeline, custirsen and apatorsen are clinical-stage assets being evaluated in two phase 3 studies and five phase 2 studies.

Product Candidates Overview and Recent Developments

Our product candidates custirsen, apatorsen and OGX-225 focus on mechanisms of treatment resistance in cancer patients and are designed to block the production of specific proteins that we believe promote treatment resistance and survival of tumor cells and are over-produced in response to a variety of cancer treatments. Our aim in targeting these particular proteins is to disable the tumor cell’s adaptive defenses, thereby rendering the tumor cells more susceptible to attack with a variety of cancer therapies. We believe this approach will increase survival time and improve the quality of life for cancer patients.

Custirsen

Custirsen is currently being evaluated in two phase 3 trials; one in patients with prostate cancer and one in patients with non-small cell lung cancer, or NSCLC. Custirsen is designed to inhibit the production of clusterin, a protein we believe promotes survival of cancer cells when overexpressed in a variety of tumors. We and collaborating investigators have conducted one phase 3 clinical trial and five phase 2 clinical trials to evaluate the ability of custirsen to enhance the effects of therapy in prostate, non-small cell lung and breast cancers. Results have been presented for each of these trials. Refer to the discussion below under the headings “Our Product Candidates—Custirsen—Current Custirsen Development Activities” and “Our Product Candidates—Custirsen—Summary of Results of Custirsen Clinical Trials” for further details.

The completed SYNERGY phase 3 trial was designed to evaluate a survival benefit for custirsen, in combination with first-line docetaxel chemotherapy, in men with metastatic castrate-resistant prostate cancer, or metastatic CRPC. Although results did not meet the primary endpoint of a statistically significant improvement in overall survival in men with metastatic CRPC compared to docetaxel/prednisone alone, subsequent exploratory analyses showed improved overall survival for those men who had poor prognostic scores across several risk factors and received custirsen. Based on these findings and upon completion of the agreement with Teva to terminate our collaboration agreement, we may prospectively evaluate patients with poor prognostic factors within the ongoing phase 3 AFFINITY trial in metastatic CRPC and the phase 3 trial in NSCLC.

Phase 3 Custirsen Trials:

Trial	Cancer Indication	Treatment Combination(1)	Status
	Metastatic castrate resistant prostate cancer – survival endpoint	Docetaxel with and without custirsen (1,022 patients); first-line chemotherapy	<ul style="list-style-type: none"> Completed; top-line data reported in April 2014; additional analyses to be reported
	Metastatic castrate resistant prostate cancer – survival endpoint	Cabazitaxel with and without custirsen (~630 patients); second-line chemotherapy	<ul style="list-style-type: none"> Passed interim futility analysis in January 2015 Patient enrollment completed in September 2014
	Advanced non-small cell lung cancer – survival endpoint	Docetaxel with and without custirsen (~1,100 patients); second-line chemotherapy	<ul style="list-style-type: none"> Passed first interim futility analysis in August 2014 Plan to modify study design and include a more rigorous second interim futility analysis (2) Patient enrollment ongoing Phase 3 initiated in the third quarter of 2012

- (1) In all of our prostate cancer clinical trials and in clinical practice for prostate cancer, docetaxel is administered in combination with prednisone.
 (2) Subject to completion of the termination agreement with Teva.

Apatorsen

Apatorsen is our product candidate designed to inhibit production of heat shock protein 27, or Hsp27, a cell-survival protein expressed in many types of cancers including bladder, non-small cell lung, pancreatic, prostate and breast cancers. Hsp27 expression is stress-induced by many anti-cancer therapies. Overexpression of Hsp27 is thought to be an important factor leading to the development of treatment resistance and tumor immune escape mechanisms, both of which are associated with metastasis and negative clinical outcomes in patients with various tumor types. We and collaborating investigators have conducted, or are in the process of conducting, two phase 1 and seven randomized phase 2 clinical trials that have been designed to evaluate the ability of apatorsen to enhance various treatments in patients with bladder, lung, pancreatic and prostate cancers. Final results have been presented for the first completed phase 1 trial evaluating various cancers. Preliminary results have been presented for two trials (phase 1 and phase 2) in bladder cancer, and one of the phase 2 trials in prostate cancer. Refer to the discussion below under the headings “Our Product Candidates—Apatorsen—Current Apatorsen Development Activities” and “Our Product Candidates—Apatorsen—Summary of Results of Apatorsen Clinical Trials” for further details.

In 2013, we initiated the “ORCA™” (On-going Studies Evaluating Treatment Resistance in CAncer) program, which encompasses clinical trials designed to evaluate whether inhibition of Hsp27 can lead to improved prognosis and treatment outcomes for cancer patients. Our goal is to advance cancer treatment by conducting clinical trials for apatorsen across multiple cancer indications including bladder, lung, pancreatic and prostate cancers. We are conducting parallel clinical trials to evaluate apatorsen in several cancer indications and treatment combinations to accelerate the development of apatorsen. As part of this strategy, we are supporting specific investigator-sponsored trials to allow assessment of a broader range of clinical indications for future OncoGenex-sponsored trials and possible market approval.

The Borealis-1™ phase 2 trial was a three-arm, randomized, placebo-controlled trial evaluating apatorsen in combination with first-line gemcitabine and cisplatin treatment in the metastatic setting. Overall trial results indicated that the addition of 600mg apatorsen to standard of care chemotherapy showed a 14% reduction in risk of death (overall survival hazard ratio (HR) = 0.86) and a 17% reduction in progressive disease and death (progression-free survival HR = 0.83) when compared to chemotherapy alone. Subsequent exploratory analyses showed improved overall survival for those patients who received apatorsen and had poor prognosis over various prognostic factors such as performance status.

Apatorsen Trials - The ORCA Program:



Trial	Cancer Indication	Treatment Combination	Status
	Metastatic bladder cancer	Gemcitabine and cisplatin with and without apatorsen (~ 180 patients); first-line chemotherapy	· Completed; top-line data reported in December 2014; additional analyses to be reported
	Metastatic bladder cancer	Docetaxel with and without apatorsen (~ 200 patients); second-line chemotherapy	· Patient enrollment ongoing · Phase 2 initiated in April 2013
	Advanced non-squamous NSCLC	Carboplatin and pemetrexed with and without apatorsen (~155 patients)	· Patient enrollment completed in February 2015
	Advanced squamous NSCLC	Gemcitabine and carboplatin with and without apatorsen (~ 140 patients)	· Patient enrollment ongoing · Phase 2 initiated in July 2014
	Metastatic pancreatic cancer	Abraxane and gemcitabine with and without apatorsen (~ 130 patients)	· Patient enrollment completed in December 2014
	Castrate resistant prostate cancer	Zytiga (abiraterone acetate) with and without apatorsen (~80 patients)	· Patient enrollment ongoing · Phase 2 initiated in December 2012

OGX-225

OGX-225 is our product candidate designed to inhibit the production of Insulin Growth Factor Binding Proteins -2 and -5 (IGFBP-2, IGFBP-5), two proteins that affect the growth of cancer cells when overexpressed. Increased IGFBP-2 and IGFBP-5 production are observed in many human cancers, including prostate, breast, colorectal, non-small cell lung, glioblastoma, acute myeloid leukemia, acute lymphoblastic leukemia, neuroblastoma, and melanoma. The increased production of these proteins is linked to faster rates of cancer progression, treatment resistance, and shorter survival duration in humans.

Preclinical studies with human prostate and breast cancer cells have shown that reducing IGFBP-2 and IGFBP-5 production with OGX-225 sensitized these tumor types to hormone ablation therapy or chemotherapy and induced tumor cell death. We have begun development activities for OGX-225 and IND enabling toxicology studies have been completed.

Financial Overview

In 2014, we recognized \$27.1 million in collaboration revenue attributable to our collaboration agreement with Teva. We have devoted substantially all of our resources to the development of our product candidates.

We incurred a loss for the year ended December 31, 2014 of \$26.2 million and had an accumulated deficit at December 31, 2014 of \$160.0 million and \$56.3 million of total assets. We expect to continue to incur additional losses in the future as we continue our research and development activities.

To date, we have funded our operations primarily through private and public placements of equity securities as well as upfront payments and custirsen expense reimbursements received from the collaboration agreement with Teva. In December 2014, we and Teva entered into an agreement pursuant to which we agreed to negotiate the termination of our collaboration agreement. These negotiations are ongoing, and we cannot provide assurance as to when, if at all, the collaboration agreement will be terminated. If the collaboration agreement is terminated, we do not expect to receive any future amounts from Teva beyond the amounts paid in connection with such termination.

We believe we have sufficient operating capital to fund our currently planned operations into the third quarter of 2016, and through the following milestones:

- reporting of results from the AFFINITY trial expected in late 2015 or early 2016;
- completion of patient enrollment in the Borealis-2™ trial;
- reporting of results from the Spruce™ trial expected in the first half of 2016; and
- reporting of results from the Rainier™ clinical trial.

Upon completion of the agreement with Teva to terminate our collaboration agreement, on the terms previously disclosed, we expect that we would receive a payment of approximately \$27.0 million, subject to certain adjustments. We believe that the payment from Teva, together with our current cash and cash equivalents, would be sufficient to complete the milestones listed above as well as a modified second futility analysis of the ENSPIRIT trial. Additional capital will be required to fund completion of ENSPIRIT beyond the second futility analysis.

OUR PRODUCT CANDIDATES

We have two clinical-stage product candidates, custirsen in phase 3 and apatorsen in phase 2, and one preclinical-stage product candidate, OGX-225.

Custirsen

Overview of Custirsen

Through our clinical trials, we are treating cancer patients with custirsen with the goal of reducing clusterin production. Clusterin is a protein that is over-produced in several types of cancer and in response to many cancer treatments, including hormone ablation therapy, chemotherapy and radiation therapy. Preclinical and other data suggest that clusterin promotes tumor cell survival. Increased clusterin production has been linked to faster rates of cancer progression, treatment resistance and shorter survival duration. Since increased clusterin production is observed in many human cancers, including prostate, non-small cell lung, breast, ovarian, bladder, renal, pancreatic, colon, anaplastic large cell lymphoma and melanoma, we believe that custirsen may have broad market potential to treat many cancer indications and disease stages.

A broad range of preclinical studies have shown that reducing clusterin production with custirsen: (i) facilitates tumor cell death by sensitizing human prostate, non-small cell lung, breast, ovarian, bladder, renal and melanoma tumor cells to various chemotherapies; and (ii) sensitizes prostate tumor cells to hormone ablation therapy and sensitizes prostate and non-small cell lung tumor cells to radiation therapy. Preclinical studies also indicate that reducing clusterin production with custirsen re-sensitizes docetaxel-resistant prostate tumor cells to docetaxel.

Our phase 1 clinical trials evaluated the safety of custirsen and established a recommended dose of custirsen in combination with docetaxel (assessed two different docetaxel schedules), a gemcitabine and a platinum chemotherapy regimen and hormone ablation therapy. Docetaxel, mitoxantrone, cabazitaxel, gemcitabine and platinum (cisplatin and carboplatin) are all examples of chemotherapy agents. Clinical data from our phase 1 trial in prostate cancer patients demonstrated that weekly intravenous administration of custirsen resulted in drug distribution to prostate cancer tissue and over 92% inhibition of its target, clusterin mRNA, in prostate tumor cells in these patients at the 640mg dose, which was the highest dose evaluated in this clinical trial. This dose was determined by the clinical investigators to be well tolerated and therefore was established as the recommended dose.

We have conducted five phase 2 clinical trials and one phase 3 trial to evaluate the ability of custirsen to enhance the effects of therapy in patients with prostate, non-small cell lung and breast cancer. Data from each of the trials demonstrates that adding custirsen to therapy shows potential benefits, including:

- longer survival duration for patients with worse poor prognostic factors across several risk factors when custirsen was added to first-line docetaxel compared to first-line docetaxel alone in patients with metastatic CRPC (randomized phase 3 trial);
- longer survival duration when custirsen was added to first-line docetaxel compared to first-line docetaxel alone in patients with CRPC, (randomized phase 2 trial);
- longer survival duration when custirsen was added to either mitoxantrone or docetaxel as second-line chemotherapy compared to survival duration observed in two prior published trials of CRPC patients receiving second-line chemotherapy and comparable survival compared to results observed with cabazitaxel;
- decreased on-treatment serum clusterin levels compared to baseline levels of the patient population; analysis of study data found that lower serum clusterin levels during treatment were predictive of survival;

- increased frequency of pain responses when compared to pain response results with either mitoxantrone or cabazitaxel second-line chemotherapy in the phase 3 TROPIC trial, and increased frequency and duration of pain palliation when custirsen was added to either mitoxantrone or docetaxel as second-line chemotherapy when compared to the frequency and duration of pain palliation observed in the TAX 327 Study for first-line chemotherapy alone in patients with CRPC; and
- longer survival duration when custirsen was added to gemcitabine and a platinum-containing chemotherapy compared to the survival duration reported in prior published results from randomized clinical trials in NSCLC patients receiving gemcitabine and a platinum-containing chemotherapy.

Refer to the discussion below under the heading “Summary of Results of Custirsen Clinical Trials” for further details including safety summary.

The U.S. Adopted Name for the custirsen drug product is custirsen sodium, which is the generic name.

Current Custirsen Development Activities

The following clinical trials are currently ongoing:

- The AFFINITY Trial: The phase 3 clinical trial to evaluate a survival benefit for custirsen in combination with cabazitaxel treatment as second-line chemotherapy in patients with CRPC. We initiated this phase 3 clinical trial in August 2012 and completed enrollment of approximately 630 patients in September 2014. The trial is designed to show a survival benefit with 85% power based on a hazard ratio of 0.75. A single interim futility analysis was completed in January 2015; the trial is continuing based on the recommendation of the Independent Data Monitoring Committee.
- The ENSPIRIT Trial: The phase 3 clinical trial to evaluate a survival benefit for custirsen in combination with docetaxel treatment as second-line chemotherapy in patients with NSCLC. The original design was to enroll 1,100 patients in order to show a survival benefit with 90% power based on a hazard ratio of 0.80. This trial was initiated in September 2012. Two formal interim futility analyses are planned, which would result in early termination of the trial if there is inadequate evidence of clinical benefit or futility. The first interim futility analysis was completed in August 2014; the trial is continuing based on the recommendation of the Independent Data Monitoring Committee. The second interim futility analysis is based on OS futility only. The trial will not be stopped early in order to claim efficacy. Upon completion of the agreement with Teva to terminate our collaboration agreement, we intend to modify the study design and the statistical analysis plan for the ENSPIRIT trial to allow for a smaller trial size and to include a more rigorous second interim futility analysis that will occur earlier. The goal of this amendment is to provide a better assessment of more clinically relevant survival benefit when adding custirsen to second-line docetaxel or whether to terminate the trial early for survival futility. The second interim futility analysis is planned by mid-2015, subject to these modifications.

Custirsen has received Fast Track designation from the U.S. Food and Drug Administration, or FDA, for second-line treatment of metastatic CRPC when combined with cabazitaxel and prednisone and for the second-line treatment of advanced NSCLC when combined with docetaxel in patients with disease progression following treatment with a first-line, platinum-based chemotherapy doublet regimen.

Summary of Results of Custirsen Clinical Trials

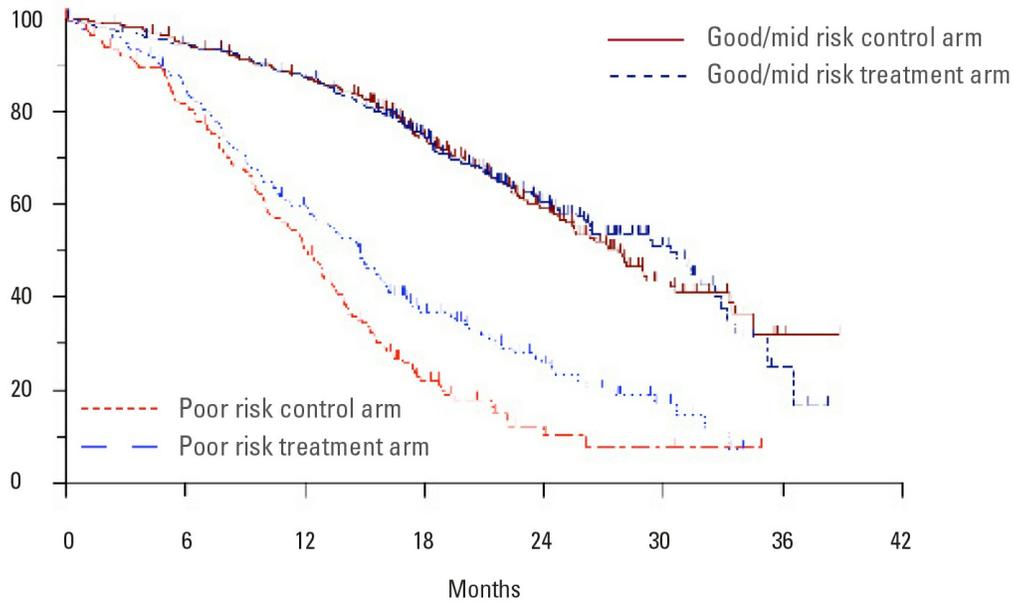
One phase 3 and five phase 2 clinical trials have been conducted to evaluate the ability of custirsen to enhance the effects of therapy in patients with prostate, non-small cell lung and breast cancer. The following is a summary of the completed clinical trials evaluating custirsen in combination with chemotherapy.

Summary of Final Results of the SYNERGY Phase 3 Clinical Trial in Patients with metastatic CRPC

The trial enrolled 1,022 men at 124 sites across the United States and Europe between 2010 and 2012. Patients were randomized to receive either 640 mg of custirsen per week by intravenous infusion in combination with docetaxel or docetaxel alone, which remains the standard of care for first-line chemotherapy treatment in patients with metastatic CRPC. Top-Line results were reported in April 2014 indicating that the addition of custirsen to first-line docetaxel chemotherapy did not meet the primary endpoint of a statistically significant improvement in overall survival in men with metastatic CRPC, compared to docetaxel alone (median survival 23.4 months vs 22.2 months, respectively; hazard ratio 0.93 and one-sided p value 0.207). However, subsequent exploratory analyses showed improved overall survival for men who had the worst poor prognostic scores across several risk factors and received custirsen. Prognostic scoring for each patient allowed classification into good, mid and poor prognostic subgroups. The figure below shows the survival difference for docetaxel plus custirsen treatment compared to docetaxel alone for the poor prognostic subgroup. For the good and mid prognostic subgroups combined, there was no survival difference for docetaxel plus custirsen treatment compared to docetaxel alone.

In summary, exploratory analyses indicated a survival benefit in patients who had the worst prognostic scores based on a number of poor prognosis factors when treated with custirsen in combination with docetaxel compared to docetaxel alone:

- the exploratory multivariate analysis indicated that the significant predictors of overall survival in this study were low performance status, presence of liver metastases, opioid usage for prostate cancer pain, anemia, high levels of prostate specific antigen (PSA) in the blood as well as high blood levels of lactate dehydrogenase, or LDH, and alkaline phosphatase, also known to be common poor prognostic laboratory indicators, and
- the unadjusted hazard ratio, a measure used to compare the death rates between groups, was 0.67 for the poor prognostic subgroups, representing a 33% lower rate of death for patients who had the worst prognostic scores and were receiving custirsen.



As part of our phase 1, 2 and 3 clinical trials, custirsen has been administered to more than 1,300 patients with multiple types of cancer. Some of the patients experienced a variety of adverse events, the majority of which are associated with other treatments in the protocol and with the disease. The majority of adverse events were mild and the most common adverse events associated with custirsen consisted of flu-like symptoms. The most common moderate and severe adverse events occurring in more than 3% of patients who received custirsen and docetaxel in the completed Phase 3 trial (SYNERGY) were fatigue, fever and neutropenia, weakness, diarrhea, pulmonary embolism (a blood clot that blocks an artery in the lungs), and pneumonia. These events also occurred in patients who received docetaxel alone in the completed phase 3 trial (SYNERGY).

Summary of Final Results of Phase 2 Clinical Trial in Patients with CRPC Receiving Custirsen and Docetaxel as First-Line Chemotherapy

Final results of a randomized phase 2 trial evaluating the benefit of combining custirsen with first-line docetaxel in patients with CRPC were published in the September 20, 2010 issue of the Journal of Clinical Oncology, or JCO.

The trial enrolled 82 patients at 12 sites in Canada and the United States from September 2005 to December 2006. Patients were randomized to one of two treatment arms to receive either 640 mg of custirsen per week by intravenous infusion in combination with docetaxel or docetaxel alone. Analyses indicated a survival benefit in patients treated with custirsen in combination with docetaxel compared to docetaxel alone:

- median overall survival among patients treated with custirsen plus docetaxel was 23.8 months compared to 16.9 months for patients treated with docetaxel alone, indicating a 6.9 month survival advantage in the custirsen arm;

- the unadjusted hazard ratio, a measure used to compare the death rates between treatment groups, was 0.61, representing a 39% lower rate of death for patients receiving custirsen; and
- a prospectively defined multivariate analysis indicated that the significant predictors of overall survival in this study were treatment arm, performance status and presence of metastases other than in bone or lymph nodes. In the multivariate analysis, patients treated with custirsen had a rate of death 51% lower than patients treated with docetaxel alone (HR=0.49; p=0.012).

Study investigators concluded that custirsen treatment was well tolerated in combination with docetaxel. Patients receiving custirsen had an increased incidence of mild fever, chills and elevated creatinine levels (a laboratory measure for reduced kidney function) and a moderate to significant decrease in circulating lymphocytes in the blood (another laboratory measure) without any increase in infection rate compared to patients receiving docetaxel alone. Lymphocytes are a type of white blood cell involved in the body's defense against infections. Based on final results of this randomized phase 2 trial, the phase 3 SYNERGY trial was designed to evaluate the overall survival benefit of custirsen in patients treated with first-line chemotherapy.

Summary of Results of Phase 2 Clinical Trial in Patients Receiving Custirsen and Docetaxel as Second-Line Chemotherapy

Data from a phase 2 clinical study of custirsen in combination with docetaxel retreatment or mitoxantrone as second-line chemotherapy in patients with metastatic CRPC were published in the September 1, 2011 issue of Clinical Cancer Research, or CCR. In this phase 2 trial, patients who were previously treated with a first-line, docetaxel-based chemotherapy regimen and progressed on or within six months of discontinuation of docetaxel treatment were randomized to receive custirsen plus either docetaxel retreatment or mitoxantrone. Initially, 42 patients were randomized, received at least one cycle of custirsen and chemotherapy and were included in the analysis: 20 patients received docetaxel retreatment plus custirsen and 22 patients received mitoxantrone plus custirsen. The protocol was amended to allow additional patients to be enrolled in the docetaxel retreatment arm and 25 additional patients were enrolled.

Data from the clinical trial are summarized as follows:

- The median overall survival duration for the custirsen plus mitoxantrone arm was 11.5 months (95% C.I.: 6.1-15.2 months). For the custirsen plus docetaxel retreatment arm, the median overall survival was 15.8 months (95% C.I.:9.9-23.3 months) for the 20 randomized patients and 12.8 months (95% C.I.:9.9-17.0 months) for the combined patient population (n=45) that included 25 additional patients with high serum clusterin levels at enrollment beyond the 20 randomized patients.
- Analyses presented in the CCR manuscript demonstrated that treatment with custirsen in combination with chemotherapy significantly lowered serum clusterin levels as compared to baseline levels, and that average serum clusterin levels during treatment were predictive of survival, with low serum clusterin levels correlating to longer survival.
- Pain responses were observed in 62% of evaluable patients, with 88% of these patients having a durable response of three months or more.

Summary of Results of Phase 2 Clinical Trial in Patients with NSCLC Receiving Custirsen and Gemcitabine/Platinum as First-Line Chemotherapy

Data from a phase 2 clinical study of custirsen in patients with advanced NSCLC was published in the January 2012 issue of Journal of Thoracic Oncology, or JTO. This study evaluated custirsen in combination with gemcitabine and a platinum chemotherapy (cisplatin or carboplatin) as first-line chemotherapy in 81 patients with advanced NSCLC. Eighty-one percent of the patients had stage IV disease at enrollment, and 16% had squamous cell carcinoma.

Data from the clinical trial are summarized as follows:

- the median overall survival was 14.1 months;
- 54% of patients survived at least one year;
- 30% of patients survived at least two years;
- disease control was achieved in 69% of patients; and
- analyses showed that treatment with custirsen in combination with gemcitabine and a platinum chemotherapy significantly lowered serum clusterin levels as compared to baseline levels, and that average serum clusterin levels during treatment were predictive of survival, with low serum clusterin levels correlating to longer survival.

Summary of Preliminary Results of Phase 2 Clinical Trial in Patients with Advanced Breast Cancer Receiving Custirsen and Docetaxel as First- or Second-Line Chemotherapy

In January 2009, results of a phase 2 clinical trial in 15 patients with advanced breast cancer were published in the scientific journal CCR; this study evaluated custirsen in combination with docetaxel as first-line or second-line chemotherapy. The authors concluded that the combination of custirsen and docetaxel at 75 mg/m² was well tolerated, and some clinical activity was seen in the patients with metastatic breast cancer.

Summary of Preliminary Results of Phase 2 Clinical Trial in Patients with CRPC Receiving Custirsen and Hormone Ablation Therapy

This trial was an investigator-sponsored trial that evaluated weekly custirsen with androgen withdrawal therapy for a three-month duration in patients with high-risk, localized prostate carcinoma prior to radical prostatectomy. Results of the trial indicated that custirsen was detectable in prostate tissue for 14 days after the last administration, that clusterin expression was decreased in cells from lymph nodes as well as from prostate specimens, and that patients who received custirsen plus androgen withdrawal therapy had higher levels of apoptosis (cell death) compared with patients who never received androgen withdrawal therapy or who received only androgen withdrawal therapy.

Summary of Results of Phase 3 Clinical Trial in Patients with CRPC Receiving a Taxane and Custirsen/Placebo Following Prior Docetaxel; Discontinued due to enrollment

Results of a randomized phase 3 trial evaluating the pain palliation benefit of custirsen in combination with taxane chemotherapy (docetaxel retreatment or cabazitaxel) in patients with CRPC following prior docetaxel were presented at the ASCO GU Symposium in January 2014. In this double-blind, placebo-controlled trial, called the SATURN trial, durable pain palliation for ³12 weeks duration was the primary endpoint.

The trial was stopped after 20 months, during which 14 subjects were randomized. Restrictive protocol-specified criteria of stable baseline pain and consistent analgesic use prevented the ability to complete trial enrollment.

Data from the clinical trial are summarized as follows:

- durable pain palliation of ³12 weeks duration was achieved in 3/14 subjects: n=1/7 (14%, taxane + placebo arm) and n=2/7 (29%, taxane + custirsen arm);
- custirsen was generally well tolerated when administered in combination with a taxane (docetaxel or cabazitaxel) and prednisone; and
- median (95% CI) overall survival by Kaplan-Meier analyses was 7.8 months (3.2, 11.5) (taxane + placebo) and 11.8 months (9.8, 15.7) (taxane + custirsen).

Summary of Custirsen Development Program

Ongoing Phase 3 Custirsen Trials:

Cancer Indication and Trial	Treatment Combination(1)	Status
Metastatic castrate resistant prostate cancer – survival endpoint (AFFINITY)	Cabazitaxel with and without custirsen (~630 patients); second-line chemotherapy	<ul style="list-style-type: none">· Passed interim futility analysis in January 2015· Patient enrollment completed in September 2014
Advanced non-small cell lung cancer – survival endpoint (ENSPRIT)	Docetaxel with and without custirsen (~1,100 patients); second-line chemotherapy	<ul style="list-style-type: none">· Passed first interim futility analysis in August 2014· Plan to modify study design and include a more rigorous second interim futility analysis (2)· Patient enrollment ongoing· Phase 3 initiated in the third quarter of 2012

Completed Custirsen Trials:

Cancer Indication	Treatment Combination(1)	Status
Metastatic castrate resistant prostate cancer (SYNERGY)	Docetaxel with and without custirsen (1,022 patients); first-line chemotherapy	· Completed; top-line data reported in April 2014; additional analyses to be reported
Metastatic castrate resistant prostate cancer (SATURN)	Taxane chemotherapy (docetaxel retreatment or cabazitaxel) with and without custirsen; second-line chemotherapy	· Results presented at the ASCO GU Symposium in January 2014 · 14 patients enrolled in phase 3 · Phase 3 discontinued: Restrictive protocol-specified criteria of stable baseline pain and consistent analgesic use prevented the ability to complete trial enrollment.
Metastatic castrate resistant prostate cancer	Docetaxel with and without custirsen; first-line chemotherapy	· Data published in JCO, September 2010 · Phase 2 completed
Metastatic castrate resistant prostate cancer	Docetaxel or mitoxantrone with and without custirsen; second-line chemotherapy	· Data published in CCR, September 2011 · Phase 2 completed
Advanced non-small cell lung cancer	Gemcitabine and cisplatin or carboplatin with and without custirsen; first-line chemotherapy	· Data published in JTO, January 2012 · Phase 2 completed
Localized prostate cancer	Custirsen with hormone ablation therapy	· Results presented at ASCO 2008 Genitourinary Cancers Symposium · Phase 2 completed
Advanced breast cancer	Custirsen with docetaxel	· Data published in CCR, January 2009 · Phase 2 completed
Localized prostate cancer	Custirsen with hormone ablation therapy	· Data published in Journal of National Cancer Institute, September 2005 · Phase 1 completed
Solid tumors (prostate, breast, NSCLC, ovarian, renal, bladder, peritoneum)	Custirsen with docetaxel	· Data published in CCR, February 2008 · Phase 1 completed

(1) In all of our prostate cancer clinical trials and in clinical practice for prostate cancer, docetaxel is administered in combination with prednisone.

(2) Subject to completion of the termination agreement with Teva.

Apatorsen

Overview of Apatorsen

Apatorsen is our product candidate that is designed to inhibit production of Hsp27, a cell-survival protein expressed in many types of cancers including bladder, prostate, breast, pancreatic and non-small cell lung cancer. Hsp27 expression is stress-induced, including by many anti-cancer therapies. Overexpression of Hsp27 is thought to be an important factor leading to the development of treatment resistance and tumor immune escape mechanisms, both of which are associated with metastasis and negative clinical outcomes in patients with various tumor types.

A number of preclinical studies have shown that reducing Hsp27 production induces tumor cell death in prostate, non-small cell lung, bladder and pancreatic cancer cells. The studies also suggest that reducing Hsp27 production sensitizes prostate tumor cells to hormone ablation therapy. These preclinical studies have also shown that inhibiting the production of Hsp27 in human prostate, bladder, lung, breast, ovarian and pancreatic tumor cells sensitizes the cells to chemotherapy.

Hsp27 can also function as an immunomodulatory protein by a number of mechanism that include altering important membrane expressed proteins on monocytes and immature dendritic cells; this alteration results in tumor-associated immune cells that are not

functional in identifying and killing cancer cells. The induction of anti-inflammatory cytokines by Hsp27 may also play a role in down-regulating lymphocyte activation leading to additional unresponsive immune cells.

In 2013, we initiated the “ORCA” (On-going studies evaluating treatment Resistance in CAncer) program which encompasses clinical studies designed to evaluate whether inhibition of Hsp27 can lead to improved prognosis and treatment outcomes for cancer patients. Our goal is to advance cancer treatment by conducting clinical trials for apatorsen across multiple cancer indications including bladder, lung, pancreatic and prostate cancers. We are conducting parallel clinical trials to evaluate apatorsen in several cancer indications and treatment combinations to accelerate the development of apatorsen. As part of this strategy, we are supporting specific investigator-sponsored trials to allow assessment of a broader range of clinical indications for future OncoGenex-sponsored trials and possible market approval.

Our completed company-sponsored Borealis-1™ phase 2 trial was a three-arm, randomized, placebo-controlled trial evaluating apatorsen in combination with a first-line standard of care chemotherapy (gemcitabine and cisplatin) in the metastatic setting. Recent trial results indicated that the addition of 600mg apatorsen to gemcitabine and cisplatin showed a 14 % reduction in risk of death and a 17% reduction in progressive disease and death when compared to chemotherapy alone. Subsequent exploratory analyses showed improved overall survival for those patients who received apatorsen and had poor prognosis over various prognostic factors such as performance status.



Current Apatorsen Development Activities

Our current apatorsen development activities for bladder cancer include the following clinical trial:

- The Borealis-2™ Trial: An investigator-sponsored, randomized phase 2 trial evaluating apatorsen in combination with docetaxel treatment compared to docetaxel treatment alone in patients with advanced or metastatic bladder cancer who have disease progression following first-line platinum-based chemotherapy. Patients may also continue weekly apatorsen infusions as maintenance treatment until disease progression or unacceptable toxicity if they complete all 10 cycles of docetaxel, or are discontinued from docetaxel due to docetaxel toxicity. This trial is designed to have adequate power to detect a survival benefit corresponding to a hazard ratio of approximately 0.667. The primary analysis is to be performed at one-sided 0.10 significance level with 90% power to detect a difference in overall survival. We expect to enroll approximately 200 patients. This trial was initiated in April 2013 and is enrolling patients.

Our current apatorsen development activities for NSCLC include the following clinical trials:

- The Spruce™ Trial: An investigator-sponsored, randomized, placebo-controlled phase 2 trial evaluating apatorsen plus carboplatin and pemetrexed therapy or placebo plus carboplatin and pemetrexed therapy in patients with previously untreated advanced non-squamous NSCLC. Patients also continue weekly apatorsen or placebo infusions as maintenance treatment until disease progression if they complete a minimum of 3 cycles of chemotherapy treatment. The trial is expected to randomize approximately 155 patients. The aim of the trial is to determine if adding apatorsen to carboplatin and pemetrexed therapy can extend PFS outcome. Additional analyses are expected to include tumor response rates, overall survival, safety, tolerability and the effect of therapy on Hsp27 levels. This trial was initiated in August 2013 and patient enrollment was completed in February 2015.
- The Cedar™ Trial: An investigator-sponsored, randomized phase 2 trial evaluating apatorsen plus gemcitabine and carboplatin therapy or gemcitabine and carboplatin therapy alone in patients with previously untreated advanced squamous NSCLC. Patients also continue weekly apatorsen infusions as maintenance treatment after chemotherapy until disease progression. The trial is expected to randomize approximately 140 patients. The aim of the trial is to determine if adding apatorsen to gemcitabine and carboplatin therapy can extend PFS outcome. Additional analyses will include tumor response rates, overall survival, safety, and health-related quality of life. Additional analyses are expected to determine the effect of therapy on Hsp27 levels and to explore potential biomarkers that may help predict response to treatment. The trial was initiated in July 2014.

Our current apatonsen development activities for pancreatic cancer include the following clinical trial:

- The Rainier™ Trial: An investigator-sponsored, randomized, placebo-controlled phase 2 trial evaluating apatonsen in combination with Abraxane® (paclitaxel protein-bound particles for injectable suspension)(albumin-bound) and gemcitabine in approximately 130 patients with previously untreated metastatic pancreatic cancer. The objective of the trial will be overall survival, with additional analyses to evaluate PFS, tumor response rates, safety, tolerability, and the effect of therapy on Hsp27 levels. The trial was initiated in August 2013 and patient enrollment was completed in December 2014.

Our current apatonsen development activities for prostate cancer include the following clinical trial:

- The Pacific™ Trial: An investigator-sponsored, randomized phase 2 trial evaluating apatonsen in men with CRPC who are experiencing a rising PSA while receiving Zytiga® (abiraterone acetate). The aim of the trial is to determine if adding apatonsen to Zytiga treatment can reverse or delay treatment resistance by evaluating the PFS rate at a milestone Day 60 assessment. Other secondary endpoints such as PSA and objective responses, time to disease progression, CTCs and Hsp27 levels are expected to be evaluated. We expect approximately 80 patients will be enrolled. The trial was initiated in December 2012 and is enrolling patients.

The primary endpoints of these phase 2 trials are survival or PFS outcomes in order to direct future company-sponsored trials in defining patient populations and indications that show promising trends in survival or PFS benefits. Statistically significant differences in these trials due to the small sample sizes is unlikely. However, these trials are designed such that if the primary endpoints reach statistical significance, we believe they could be used as a supportive studies for registration.

Summary of Completed Results of Apatonsen Clinical Trials

Preliminary or final results have been presented for a phase 1 clinical trial in patients with solid tumors, a phase 1 clinical trial in patients with superficial or muscle-invasive bladder cancer, a randomized phase 2 trial in metastatic CRPC, and a randomized phase 2 in metastatic bladder cancer. The following is a summary of the preliminary or final results from these trials.

Summary of Preliminary Results of Apatonsen Randomized Phase 2 Clinical Trial in Patients with Metastatic Bladder Cancer

Borealis-1 enrolled and treated 179 patients with documented metastatic or locally inoperable transitional cell carcinoma (TCC) of the urinary tract who had not previously received chemotherapy for metastatic disease and were not candidates for potentially curative surgery or radiotherapy. Patients were randomized to receive standard chemotherapy (gemcitabine/cisplatin) in combination with apatonsen at two dose levels (600 mg and 1000 mg) or gemcitabine/cisplatin plus placebo. Patients received up to six cycles of weekly intravenous therapy. Patients received weekly apatonsen or placebo maintenance therapy until disease progression or other reason for withdrawal from protocol treatment if they had completed a minimum of four cycles of chemotherapy. The primary endpoint of the trial was overall survival. Secondary endpoints included PFS, disease response and safety assessments for the two doses of apatonsen.

In December 2014, we announced overall trial results indicated that the addition of 600mg apatonsen to standard of care chemotherapy showed a 14% reduction in risk of death (overall survival hazard ratio (HR) = 0.86) and a 17% reduction in progressive disease and death (PFS HR = 0.83) when compared to chemotherapy alone. Subsequent exploratory analyses showed improved overall survival for those patients who received 600mg apatonsen and had poor prognosis over various prognostic factors such as performance status. Over one-third of the patients in the trial had lower performance status, as defined by a Karnofsky score of 80% or less. These patients derived the greatest benefit from 600mg apatonsen in combination with chemotherapy, resulting in a 50% reduction in risk of death (overall survival HR = 0.50) compared to chemotherapy alone. Less benefit was observed in the 1000mg apatonsen arm due to increased adverse events leading to a higher rate of discontinuation of both apatonsen and chemotherapy. Apatonsen 600mg was well tolerated in combination with chemotherapy. We believe these results provide future direction for defining the patient population for a subsequent phase 3 trials.

Summary of Preliminary results of Apatonsen Randomized Phase 2 Clinical Trial in Patients with CRPC

This randomized, controlled phase 2 trial completed enrollment of 74 patients who had minimally symptomatic or asymptomatic advanced prostate cancer and who have not yet received chemotherapy. The trial was designed to determine the potential benefit of apatonsen by assessing the number of patients without disease progression at 12 weeks post-study treatment with or without apatonsen. Preliminary study results presented at ESMO in September 2012 showed a higher number of patients without disease progression at 12 weeks and greater declines in PSA and CTCs in patients receiving apatonsen plus prednisone treatment compared to those receiving prednisone alone.

Apatorsen infusion reactions occurred and were primarily grade 1 or 2 chills, diarrhea, fatigue, nausea, flushing, pyrexia and vomiting. Other adverse events in two or more patients receiving apatorsen were dizziness, hot flashes, muscular weakness, and hypertension. Grade 3-4 laboratory treatment-emergent adverse events in two or more patients receiving apatorsen included lymphopenia (12%), hyperglycemia (12%), and elevated creatinine (6%).

Summary of Preliminary Results of Apatorsen Phase 1 Clinical Trial in Patients with Superficial Bladder Cancer

This investigator-sponsored phase 1 trial was designed to determine the effects of apatorsen on Hsp27 expression and tumor response rates when administered into the bladder using intravesical instillation. In addition, the trial measured the direct effect of delivering apatorsen by intravesical instillation on expression of Hsp27 in bladder tumor cells. This clinical trial is being primarily funded by the National Cancer Institute of Canada.

Preliminary results from this trial were presented at the ASCO 2012 Genitourinary Cancers Symposium in February 2012 and demonstrated a trend towards decreased levels of Hsp27 and increased tumor cell death rates after intravesical treatment with apatorsen. In the apatorsen treated patients who experienced a complete response, the absence of residual disease made it difficult to fully assess the effect of apatorsen on Hsp27 expression. Therefore, the analysis was based mainly on the remaining patients who had evaluable tumor tissue. Patient enrollment has been completed with 8 of 21 patients (38%) having complete responses with no pathologic evidence of disease.

Summary of Results of Apatorsen Phase 1 Clinical Trial in Patients with Solid Tumors

Apatorsen has been evaluated in a phase 1 trial in patients with breast, prostate, ovarian, or NSCLC who have failed potentially curative treatments or for whom a curative treatment does not exist. Final results of this phase 1 trial were presented in an oral presentation at the ASCO 2010 annual meeting. The phase 1 trial evaluated 42 patients treated with apatorsen as a single agent and 22 patients treated with apatorsen in combination with docetaxel who had failed up to six prior chemotherapy treatments. Apatorsen as a single agent administered weekly was evaluated at doses from 200 mg up to 1000 mg in five cohorts of approximately six patients per cohort. Two further cohorts evaluated apatorsen at the 800 and 1000 mg doses combined with docetaxel. Patients could receive up to 10 21-day cycles.

Most adverse events were mild (grade 1 or 2) and mainly occurred during the three "loading doses" given over nine days prior to weekly dosing. The most frequently reported adverse events in the apatorsen monotherapy arms were infusion-related reactions and chills. The most frequently reported adverse events in the apatorsen plus docetaxel arms were infusion-related reactions, chills, fatigue, diarrhea, pruritus (itching), nausea and back pain. The incidence of laboratory toxicity was determined based on laboratory data. The majority of laboratory toxicities were Grade 1 or Grade 2. Serious adverse events were reported for approximately half the patients. The most common events were disease progression and dyspnea (shortness of breath), reported for five subjects each and febrile neutropenia, reported for four subjects. Increased blood creatinine (a test of kidney function) and hydronephrosis (obstruction of the urine flow from the kidney due to tumor blockage) were reported for two subjects each. All remaining serious adverse events were reported for one subject each.

Thirty patients had baseline and at least one post-baseline assessment of measurable disease. A total of eight of 30 patients (27%) had a decrease in measurable disease from baseline of at least 15%. For patients treated with monotherapy, three patients had tumor reductions and for patients treated with combined therapy with docetaxel, five patients had tumor reductions.

Thirty-three of 36 patients with prostate cancer had at least one post-baseline PSA. Three of 21 in the monotherapy cohorts had reductions in PSA greater than or equal to 30% as did six of 12 in the combination therapy cohorts. Six of seven patients with ovarian cancer had both baseline and post-baseline CA-125 (an ovarian tumor marker) measurements. All were treated with monotherapy. Three patients had a reduction of CA-125.

Decreases in both total CTCs and Hsp27+CTCs were observed. Hsp27+CTCs were decreased in 71% of evaluable patients.

In approximately 35% of patients, serum Hsp27 protein levels were decreased by 30% or greater over a time period of at least six weeks.

Summary of Apatorsen Development Program

Ongoing Apatorsen Trials:

<u>Cancer Indication and Trial</u>	<u>Treatment Combination(1)</u>	<u>Status</u>
Metastatic bladder cancer (Borealis-2)	Docetaxel with and without apatorsen (~ 200 patients); second-line chemotherapy	<ul style="list-style-type: none">· Patient enrollment ongoing· Phase 2 initiated in April 2013
Advanced Non-Squamous NSCLC (Spruce)	Carboplatin and pemetrexed with and without apatorsen (~155 patients)	<ul style="list-style-type: none">· Patient enrollment completed in February 2015
Advanced squamous NSCLC (Cedar)	Gemcitabine and carboplatin with and without apatorsen (~ 140 patients)	<ul style="list-style-type: none">· Patient enrollment ongoing· Phase 2 initiated in July 2014
Metastatic pancreatic cancer (Rainier)	Abraxane and gemcitabine with and without apatorsen (~ 130 patients)	<ul style="list-style-type: none">· Patient enrollment completed December 2014
Castrate resistant prostate cancer (Pacific)	Zytiga (abiraterone acetate) with and without apatorsen (~80 patients)	<ul style="list-style-type: none">· Patient enrollment ongoing· Phase 2 initiated in December 2012

Completed Apatorsen Trials:

<u>Cancer Indication</u>	<u>Treatment Combination</u>	<u>Status</u>
Metastatic bladder cancer (Borealis-1)	Gemcitabine and cisplatin with and without apatorsen (~ 180 patients); first-line chemotherapy	<ul style="list-style-type: none">· Completed; top-line data reported in December 2014; additional analyses to be reported
Solid tumors	Apatorsen with and without chemotherapy	<ul style="list-style-type: none">· Final data presented at 2010 ASCO annual meeting, manuscript in preparation· Phase 1 completed
Superficial and muscle invasive bladder Cancer (BL-01)	Apatorsen as monotherapy (24 patients)	<ul style="list-style-type: none">· Preliminary data presented at 2012 ASCO Genitourinary Cancers Symposium, manuscript in preparation· Phase 1 completed
Castrate resistant prostate cancer (PR-01)	Prednisone with and without apatorsen (74 patients)	<ul style="list-style-type: none">· Preliminary data presented at 2012 ESMO Annual Meeting, manuscript in preparation· Phase 2 completed

OGX-225

Overview of OGX-225

The development program for our third product candidate, OGX-225, is focused on reducing the production of both IGFBP-2 and IGFBP-5, thereby enhancing treatment sensitivity and delaying tumor progression. Increased IGFBP-2 or IGFBP-5 production is observed in many human cancers and is linked to faster rates of cancer progression, treatment resistance and shorter survival duration.

Because IGFBP-2 and IGFBP-5 are over-produced in a variety of cancers, OGX-225 may have broad market potential in numerous cancer indications.

We have identified the lead compound and completed numerous preclinical proof of concept studies with OGX-225, which suggest that OGX-225 may delay disease progression in prostate and breast cancer model systems. We have begun development activities for OGX-225 and have completed IND enabling toxicology studies.

Summary of OGX-225 Development Program

OGX-225 Preclinical Studies:

Cancer Indication	Treatment Combination	Status
Solid tumors	OGX-225 with and without chemotherapy	<ul style="list-style-type: none">· Toxicology studies for initial IND completed· Preclinical proof-of-concept studies completed

Second-Generation Antisense Technology

Custirsen, apatorsen and OGX-225 are based on second-generation antisense drug chemistry and belong to the drug class known as antisense therapeutics. On a product-by-product basis, we have collaborated with Isis Pharmaceuticals, Inc., or Isis, and selectively licensed technology from Isis to combine Isis' second-generation antisense chemistry with our proprietary gene target sequences to create inhibitors that are designed to down-regulate certain proteins associated with cancer resistance. In contrast to first-generation antisense chemistry, second-generation antisense chemistry has improved target binding affinity, increased resistance to degradation, and improved tissue distribution. These improvements result in slower clearance of the therapies from the body, which allow for less frequent dosing and thereby make treatment easier on patients at a lower associated cost. For example, clinical data from our phase 1 clinical trial evaluating custirsen in combination with neoadjuvant hormone therapy in prostate cancer patients demonstrated that weekly intravenous administration of custirsen resulted in drug distribution to prostate cancer tissue and over 92% inhibition of its target, clusterin mRNA, in prostate tumor cells in these patients. These data demonstrate that, following systemic administration, custirsen entered tumor cells and effectively inhibited clusterin production.

OVERVIEW OF MARKET AND TREATMENT

In North America, cancer has recently surpassed heart disease as the leading cause of death in the United States. The American Cancer Society estimates that approximately 1,658,370 new cancer cases are expected to be diagnosed in 2015. Cancer is the second most common cause of death in the United States, accounting for nearly 1 of every 4 deaths. Approximately 600,000 Americans are expected to die of cancer in 2015.

Typically, cancer treatments are given sequentially and can include hormone therapy, surgery, radiation therapy, and chemotherapy. Although a particular therapy may initially be effective, tumor cells often react to therapeutic treatment by increasing the production of proteins that afford them a survival advantage, enabling them to become resistant to therapy, multiply, and spread to additional organs. As a result, many patients progress through multiple different therapies and ultimately die from the disease.

OUR STRATEGY

Our objective is to develop and commercialize new cancer therapies that address resistance to therapies in cancer patients. Key elements of our strategy include:

- gaining market approval for custirsen by conducting registration trials that demonstrate efficacy and safety, in both prostate and lung cancer;
- advancing apatorsen by conducting clinical trials across multiple cancer indications for apatorsen, including bladder, lung, pancreatic and prostate cancers. We are conducting parallel clinical trials to evaluate apatorsen in several cancer indications and treatment combinations to accelerate the development of apatorsen. We are supporting specific investigator-sponsored trials to allow assessment of a broader range of clinical indications for future Oncogenex-sponsored trials and possible market approval;
- developing and commercializing new cancer therapies, including OGX-225, to inhibit treatment resistance in cancer patients. We plan to leverage our expertise in development to bring new products to market as soon as possible. We intend to maintain and develop our relationship with the Vancouver Prostate Centre and develop relationships with other research institutions in order to identify additional product candidates; and
- optimizing the development of our product candidates through use of outsourcing and internal expertise. In order to increase efficiency and lower our overhead, we outsource, and plan to continue to outsource, preclinical and manufacturing activities. We have chosen to establish critical product development functions in-house, including clinical trial management and regulatory affairs.

LICENSE AND COLLABORATION AGREEMENTS

Teva Pharmaceutical Industries Ltd.

Custirsen

In December 2009, we, through our wholly owned subsidiary, OncoGenex Technologies, entered into a collaboration agreement with Teva for the development and global commercialization of custirsen (and related compounds). Pursuant to the collaboration agreement, Teva was granted the exclusive worldwide right and license to develop and commercialize any products containing custirsen and related compounds, which we refer to as the Licensed Products. We have an option to co-promote custirsen in the United States and Canada.

Under the collaboration agreement, Teva made upfront payments to us in the aggregate amount of \$50 million, and will make payments of up to \$370 million upon the achievement of developmental and commercial milestones and royalties at percentage rates ranging from the mid-teens to mid-twenties on net sales, depending on aggregate annual net sales of Licensed Products. Teva also acquired \$10 million of our common stock at a premium under a separate Stock Purchase Agreement. We did not receive any payments from Teva resulting from the achievement of developmental or commercial milestones or royalties in 2014. We have fulfilled our obligation of funding \$30 million towards the development of custirsen, which included our personnel costs for certain development activities. Teva is funding all other expenses under the collaboration agreement including the SYNERGY, AFFINITY and ENSPIRIT trials being conducted under the amended clinical development plan we developed with Teva.

Under the collaboration agreement, Teva is responsible for conducting any other trials and development work necessary to obtain required regulatory approvals. We may assume some of these activities if assigned by the joint steering committee. Teva is also responsible for all such costs. The joint steering committee will oversee the development and regulatory approval of any Licensed Product. We may terminate our participation in the joint steering committee at any time.

We were required to spend \$30 million in direct and indirect development costs such as full-time equivalent, or FTE, reimbursement for time incurred by OncoGenex personnel for the benefit of the custirsen development plan, such contribution to be funded by the upfront payment provided by Teva as an advanced reimbursement for our development expenses. We have fulfilled our obligation of funding \$30 million towards the development of custirsen. Teva is funding all other expenses under the clinical development plan.

In addition to the development costs noted above, Teva is also responsible for all costs relating to product commercialization, including any costs incurred in relation to our co-promotion option, except for start-up costs in advance of commercialization.

Teva was also granted the first right to file, prosecute and maintain, and enforce at its expense, the patent rights associated with custirsen. If Teva elects, however, not to, or fails to, file, prosecute and maintain, and enforce, the patent rights associated with custirsen, we retain the right to assume responsibility for such activities.

The collaboration agreement, unless terminated earlier as described below, will remain in effect, on a country-by-country basis, until the expiration of Teva's obligation to pay royalties on sales of the Licensed Product in such country (or earlier termination under its terms). Commencing after the completion of all three phase 3 clinical trials set forth in the clinical development plan, or upon early termination due to a material adverse change in our patent rights related to custirsen or safety issues or "futility," as defined in the collaboration agreement, Teva may terminate the collaboration agreement in its sole discretion upon three months' advance notice if notice is given prior to regulatory approval of a Licensed Product, and upon six months' advance notice if notice is given after such regulatory approval. If Teva terminates the collaboration agreement for any reason other than an adverse change in custirsen patent rights, safety issues or "futility" determination as previously described, it will remain responsible for paying any remaining costs of all three phase 3 clinical trials, except for specified company development expenses. Either party may terminate the collaboration agreement for an uncured material breach by the other party or upon the bankruptcy of either party. If the collaboration agreement is terminated other than for an uncured material breach by Teva, we will pay Teva a royalty on sales of Licensed Products. The percentage rates of such royalties (which are in the single digits) depend on whether termination occurs prior to the first regulatory approval in the United States or a primary European market or after one of these approvals. These royalties would expire on a country-by-country basis on the earlier of 10 years after the first commercial sale of a Licensed Product and certain thresholds related to generic competition.

In the event of a change of control of OncoGenex and within 90 days of such a change of control, Teva may, in its sole discretion, terminate the joint steering committee or terminate the co-promotion option if not then exercised by us or if exercised but not yet executed by us, or terminate the co-promotion option if in its commercially reasonable opinion co-promotion with our successor would be materially detrimental to Teva's interests.

In December 2014, we and Teva entered into an agreement pursuant to which we agreed to negotiate the termination of our collaboration agreement. These negotiations are ongoing, and we cannot provide assurance as to when, if at all, the collaboration agreement will be terminated. If the collaboration agreement is terminated, we do not expect to receive any future amounts from Teva beyond the amounts paid in connection with such termination.

Isis Pharmaceuticals, Inc.

Custirsen

In November 2001, OncoGenex Technologies entered into an agreement with Isis to jointly develop and commercialize custirsen. This strategic relationship provided us with access to Isis' proprietary position in second-generation antisense chemistry for use in custirsen, and Isis' expertise in developing antisense therapeutics, including its manufacturing expertise, and allowed us to develop custirsen cost efficiently. Under this agreement, we paid 65%, and Isis paid 35%, of the costs and revenue resulting from the development and commercialization of custirsen. In July 2008, we and Isis amended this agreement to provide that we are solely responsible for the costs and development of custirsen, and, in turn, we incurred certain financial obligations to Isis, primarily related to sharing revenue received by us from a third party as a result of a licensing transaction.

Under the amended agreement, Isis assigned to OncoGenex Technologies its rights in the patents claiming the composition and therapeutic methods of using custirsen, and granted OncoGenex Technologies a worldwide, nonexclusive license to their know-how and patents covering our core antisense technology and manufacturing technology solely for use with custirsen. The key product related patent that Isis assigned to OncoGenex Technologies was U.S. Patent number 6,900,187 having an expiration date of at least 2021, and the key core antisense technology patents Isis licensed OncoGenex Technologies are U.S. Patent number 7,919,472 having an expiration date of 2026 and its foreign equivalents pending in Australia, Canada, the European Patent Convention and Japan. In addition, Isis agreed that so long as OncoGenex Technologies or its commercialization partner is using commercially reasonable efforts to develop and commercialize custirsen, Isis will not research, develop or commercialize an antisense compound designed to modulate clusterin. The amended agreement will continue until OncoGenex Technologies or its commercialization partner is no longer developing or commercializing custirsen or until Isis terminates the agreement for an uncured failure by OncoGenex Technologies to make a payment required under the agreement.

Licensing revenue that is based on a percentage of net sales of a licensor is defined as Royalty Revenue, while other licensing revenue, with the exception of fair market value of equity and reimbursement of research and development expenses, is defined as Non-Royalty Revenue. We will pay Isis royalties comprised of a base percentage of net sales of custirsen and a percentage of Royalty Revenue we receive in excess of a certain threshold up to a certain cap. The amount of the royalties payable to Isis depends on whether Isis owes royalty payments to third parties pursuant to its license agreements with such parties. Based on the Royalty Revenue we are eligible to receive as a result of the royalty rates established in our collaboration with Teva, our total royalty obligations to Isis will range between 6.38% and 7.00% of net sales of custirsen by Teva during the period Isis owes royalty payments to third parties, and between 3.88% and 4.50% when those third-party obligations of Isis have expired, which we expect to occur in 2017.

In addition, we are required to pay Isis 20% of all Non-Royalty Revenue we receive. Isis has disclosed in its Securities and Exchange Commission, or SEC, filings that it is entitled to receive 30% of the up to \$370 million in milestone payments we may receive from Teva as part of our collaboration agreement with Teva; however, we believe that certain of the milestone payments related to sales targets may qualify as Royalty Revenue, and therefore be subject to the lesser payment obligations discussed above. We cannot provide any assurance that we will be entitled to receive these milestone payments or, if we are, that the applicable amount payable to Isis will be less than 30%. We paid Isis \$10 million in January 2010 as Isis' share of Non-Royalty Revenue received by us in December 2009 in connection with our collaboration agreement with Teva. We did not make any further payments to Isis in 2014 under the terms of the agreement with Isis.

Neither we nor Isis can pursue the development or commercialization of any antisense compound for clusterin outside of the agreement with Isis. This arrangement will continue until custirsen is no longer being developed or commercialized or until the agreement with Isis is earlier terminated due to an uncured material breach.

To facilitate the execution and performance of the collaboration agreement with Teva, we and Isis agreed to further amend our agreement, which amendment provided that, among other things, if we are the subject of a change of control with a third party, where the surviving entity immediately following such change of control has the right to develop and sell the product, then (i) a milestone payment of \$20 million will be due and payable to Isis 21 days following the first commercial sale of the product in the United States and (ii) unless such surviving entity had previously sublicensed the product and a royalty rate payable to Isis by us has been established, the applicable royalty rate payable to Isis will thereafter be the maximum amount payable under our agreement with Isis. Any non-royalty milestone amounts previously paid will be credited towards the \$20 million milestone if not already paid. As a result of the \$10 million milestone payment paid to Isis in relation to the collaboration agreement with Teva, the remaining amount owing in the event of change of control discussed above is a maximum of \$10 million. As we have licensed the product to Teva and established a royalty rate payable to Isis, no royalty rate adjustments would apply if Teva acquires us and is the surviving entity.

OncoGenex Technologies has agreed to indemnify Isis and persons affiliated with Isis against liabilities resulting from the development, manufacture, use, handling, storage, sale or other commercialization or disposition of custirsen caused by OncoGenex Technologies' or its licensees' or sublicensees' gross negligence or willful misconduct, or caused by OncoGenex Technologies' material breach of our agreement with Isis.

Apatorsen

In January 2005, OncoGenex Technologies entered into a collaboration and license agreement with Isis to jointly identify antisense compounds designed to inhibit the production of proteins encoded by specified gene targets. OncoGenex Technologies is solely responsible for all product development activities for antisense compounds under this collaboration. This relationship provides OncoGenex Technologies with access to Isis' proprietary position in second generation antisense chemistry for use in specified products. OncoGenex Technologies was permitted to designate up to two collaboration gene targets for collaborative research, development and commercialization. In April, 2005, Hsp27 was confirmed as a collaboration gene target, and we and Isis jointly designed and screened antisense compounds for this gene target. OncoGenex Technologies' right to designate a second collaboration gene target expired on January 5, 2007.

Under the terms of the agreement, in the event that OncoGenex Technologies abandons apatorsen, Isis may elect to unilaterally continue development of apatorsen, in which case it must provide Isis with a worldwide license or sublicense (as the case may be) of its relevant technology solely to develop and commercialize apatorsen in exchange for a royalty on Isis' sales of apatorsen.

Under the terms of the agreement, OncoGenex Technologies may be obligated to make certain milestone payments to Isis contingent upon the occurrence of certain clinical development and regulatory events related to apatorsen. It is also obligated to pay to Isis certain milestone payments, as well as certain low to mid single-digit royalties on net sales for apatorsen, with the amount of royalties depending on whether third-party royalty payments are owed. We paid Isis USD\$0.8 million in 2010 upon the initiation of a phase 2 clinical trial of apatorsen in patients with CRPC. We did not make any royalty payments to Isis under the terms of the agreement in 2014 and do not anticipate making any royalty payments to Isis under the terms of the agreement in 2015.

OncoGenex Technologies has agreed to indemnify Isis and certain persons affiliated with Isis against liabilities caused by its and its licensees' and sublicensees' gross negligence or willful misconduct, its material breach of the collaboration and license agreement, and the manufacture, use, handling, storage, sale or other disposition of apatorsen that is sold by OncoGenex Technologies or its affiliates, agents or sublicensees.

The term of the collaboration and license agreement will continue for each product until the later of 10 years after the date of the first commercial sale of apatorsen and the expiration of the last to expire of any patents required to be licensed in order to use or sell apatorsen, unless OncoGenex Technologies abandons apatorsen and Isis does not elect to unilaterally continue development of apatorsen.

University of British Columbia

Custirsen

Efforts conducted at the Vancouver Prostate Centre are owned and managed by the University of British Columbia, or UBC. Under a license agreement entered into in November 2001, as amended, UBC granted to OncoGenex Technologies an exclusive, worldwide license to commercialize its existing intellectual property and any improvements related to clusterin. This technology, combined with Isis' second-generation antisense chemistry, is our product candidate custirsen. In connection with entering into the license agreement, we issued to UBC shares of OncoGenex Technologies that were exchanged in the Arrangement for 15,243 shares of our common stock. OncoGenex Technologies agreed to pay UBC low single digit royalties on milestones and the revenue from sales of custirsen. OncoGenex Technologies is obligated to pay UBC CAD\$2,000 in annual maintenance fees. In January 2010, we paid UBC CAD\$0.3 million as a result of upfront payments we received from Teva in December 2009 in connection with the collaboration agreement. The occurrence and receipt of future milestone payments and the generation of royalty revenue are uncertain. We did not make any royalty or milestone payments to UBC under the terms of the agreement in 2014.

OncoGenex Technologies agreed to use its commercially reasonable efforts to develop and exploit the licensed technology and any improvements. OncoGenex Technologies also agreed to promote, market and sell any resulting products and to cause the market demand for such products to be satisfied. OncoGenex Technologies is permitted to sublicense the technology, subject to certain consent and other requirements. OncoGenex Technologies directs patent prosecution and is responsible for all fees and costs related to the preparation, filing, prosecution and maintenance of the patent rights underlying the license agreement. OncoGenex Technologies indemnifies UBC and certain of UBC's affiliates against liability arising out of the exercise of any rights granted pursuant to the agreement. The term of the agreement will expire on the later of 20 years from its effective date and the expiration of the last patent licensed under the agreement. Subject to patent term extensions, the current granted patent for custirsen expires in the United States in 2021 and would expire in all other jurisdictions by 2020. OncoGenex Technologies has additional patent applications pending that, if

issued and not invalidated, may extend the expiration date of the last-to-expire patents. OncoGenex Technologies may also file additional patent applications related to clusterin that could potentially extend the expiration date of the last to expire patent in this area.

Apatorsen

Under a license agreement entered into in April 2005, as amended, UBC granted to OncoGenex Technologies an exclusive, worldwide license to commercialize its existing intellectual property and any improvements related to Hsp27. This technology, combined with Isis' second-generation antisense chemistry, is our product candidate apatorsen. In connection with entering into the license agreement, OncoGenex Technologies issued to UBC shares that were exchanged in the Arrangement for 6,533 shares of our common stock. OncoGenex Technologies also agreed to pay UBC low single digit royalties on the revenue from sales of apatorsen, which royalty rate may be reduced in the event that OncoGenex Technologies must pay additional royalties under patent licenses entered into with third parties in order to manufacture, use or sell apatorsen. OncoGenex Technologies may be obligated to make milestone payments to UBC contingent upon the occurrence of certain clinical development and regulatory events related to apatorsen. OncoGenex Technologies is obligated to pay UBC CAD\$2,000 in annual maintenance fees. We paid UBC CAD\$0.1 million in 2010 in relation to the initiation of a phase 2 trial of apatorsen in patients with CRPC. The occurrence and receipt of upfront and milestone payments and the generation of royalty revenue are uncertain. We did not make any royalty payments to UBC under the terms of the agreement in 2014 and do not anticipate making any such payments to UBC in 2015.

Subject to certain exceptions, OncoGenex Technologies agreed to use its commercially reasonable efforts to (i) develop and exploit the licensed technology and any improvements and (ii) promote, market and sell any resulting products. OncoGenex Technologies is permitted to sublicense the technology, subject to certain consent and other requirements. OncoGenex Technologies directs patent prosecution and is responsible for all fees and costs related to the preparation, filing, prosecution and maintenance of the patent rights underlying the license agreement. OncoGenex Technologies indemnifies UBC and certain of UBC's affiliates against liability arising out of the exercise of any rights granted pursuant to the agreement. The term of the agreement will expire on the later of 20 years from its effective date and the expiration of the last patent licensed under the agreement. Depending on the outcome of the pending patent applications in the licensed patent family, and subject to any applicable patent term extensions, a patent issuing from this family would expire in all jurisdictions by 2023. OncoGenex Technologies may also file additional patent applications related to Hsp27 that could potentially extend the expiration date of the last to expire patent in this area.

OGX-225

Pursuant to the terms of our third-party license agreement relating to OGX-225, we will owe payments upon the completion of product development milestones, as well as low to mid single digit royalties on product sales. We did not make any milestone or royalty payments to third parties under the terms of the agreement in 2014 and do not anticipate making any such payments during 2015.

We are also obligated to pay annual license fees to third parties with respect to these product candidates. These amounts are disclosed in "Management's Discussion and Analysis of Financial Condition and Results of Operations – Contractual Obligations," which is incorporated herein by reference.

Summary of Milestone Obligations by Product Candidate

The following table sets forth the milestones that we may be required to pay to third parties under the license and collaboration agreements described above. As described above, we will also be required to pay certain revenue-based royalties with respect to each of our product candidates.

<u>Milestone Obligations to Third Parties</u>	<u>Amount Payable</u>
Custirsen	21% of non-royalty revenue
Apatorsen	Up to \$4,923,000 (1)(2)(3)
OGX-225	Up to \$4,262,000 (2)(3)

- (1) Additional milestone payments may be required for product approvals outside the field of oncology.
- (2) Payable in connection with initiating certain clinical trials and obtaining certain market approvals.
- (3) Certain milestone payments are payable in Canadian dollars, which are translated based on the December 31, 2014 exchange rate of US\$1.00 = CAD\$1.1601 and rounded to the nearest \$1,000.

GOVERNMENT REGULATIONS

Drug Approval Process

Regulation by government authorities in the United States and other countries is a significant factor in our ongoing research and development activities and in the production and marketing of our products. In order to undertake clinical trials and to produce and market products for human use, mandatory procedures and safety standards established by the FDA in the United States and by comparable agencies in other countries must be followed.

The standard process before a pharmaceutical agent may be marketed includes the following steps:

- preclinical studies, including laboratory evaluation and animal studies to test for initial safety and efficacy;
- submission to national health authorities of an IND or Clinical Trials Application, or CTA, or equivalent dossier, which must be accepted by each national health authority before human clinical trials may commence in that country;
- adequate and well-controlled clinical trials to establish the safety and efficacy of the drug in its intended population and use(s);
- submission to appropriate national and/or regional regulatory health authorities of a New Drug Application, or NDA, or equivalent marketing authorization application, which application is not automatically accepted for review; and
- approval by appropriate regulatory health authorities of the marketing authorization application prior to any commercial sale or shipment of the drug in each country or jurisdiction.

As part of the regulatory health authority approval for each product, the drug-manufacturing establishment is subject to inspection by the FDA and must comply with current Good Manufacturing Practices, or cGMP, requirements applicable to the production of pharmaceutical drug products. The facilities, procedures and operations of manufacturers must be determined to be adequate by the FDA before product approval.

Preclinical studies include laboratory evaluation of the active drug substance and its formulation in animals to assess the potential safety and efficacy of the drug and its formulation. Prior to initiating the first clinical testing of a new drug product candidate, the results of the preclinical studies are submitted to regulatory health authorities as part of an IND or CTA, and must be accepted before the proposed clinical trial(s) can begin.

Clinical trials for cancer therapeutics involve the administration of the investigational drug to patients with a defined disease state, under the supervision of a qualified principal investigator.

Clinical trials are conducted in accordance with protocols that detail the parameters to be used to monitor safety and efficacy. Each protocol is submitted to regulatory health authorities as part of the IND or CTA in each country where clinical trials are to be conducted. Each clinical trial is approved and monitored by independent Institutional Review Boards, or IRB, or Ethics Committees who consider ethical factors, informed consent documents, the safety of human subjects and the possible liability of the institutions conducting a clinical trial. The IRB or Ethics Committee may require changes in the clinical trials protocol, which may delay initiation or completion of the trial.

Clinical trials typically are conducted in three sequential phases, although the phases may overlap. In phase 1, the initial introduction of the drug to humans, the drug is tested for safety and clinical pharmacology. Phase 2 trials involve more detailed evaluation of the safety and efficacy of the drug in patients with a defined disease. Phase 3 trials consist of large-scale evaluations of safety and efficacy of the investigational drug compared to accepted standard therapy in a defined disease.

The process of completing clinical testing and obtaining regulatory approval for a new product takes a number of years and requires the expenditure of substantial resources. The FDA, or another regulatory authority, may not grant approval on a timely basis, if at all. We may encounter difficulties in securing regulatory approval or unanticipated costs, which may delay or preclude the commercialization of our product candidates. For instance, regulatory authorities may conclude that the data submitted in a marketing authorization application, such as a NDA, are not adequate to support approval of a pharmaceutical agent and may require further clinical and preclinical testing, re-submission of the application, and further review. Even after initial approval has been obtained, an indication may be limited or conditioned on the provision of further studies to support an approved indication, and further studies will be required to gain approval for the use of a product for clinical indications other than those for which the product was approved initially. Also, regulatory authorities require post-marketing surveillance programs to monitor the drug product's side effects.

Marketing of pharmaceutical products outside of the United States is subject to regulatory requirements that vary from country to country. In the European Union, the general trend has been towards coordination of common standards for clinical testing of new drug products. Centralized approval in the European Union is coordinated through the EMA.

The level of regulation outside the United States and the European Union varies widely. The time required to obtain regulatory approval from regulatory agencies in each country may be longer or shorter than that required for FDA or EMA approval. In addition, in certain markets, reimbursement is subject to governmentally mandated prices.

CONTRACT RESEARCH AGREEMENTS

Consistent with our strategy to outsource certain product development activities, we have established contract research agreements for, preclinical, clinical, manufacturing and some data management services. We choose which business or institution to use for these services based on their expertise, capacity and reputation and the cost of the service.

We also provide quantities of our product candidates to academic research institutions to investigate the mechanism of action and evaluate novel combinations of product candidates with other cancer therapies in various cancer indications. These collaborations expand our research activities for product candidates with modest contribution from us.

RESEARCH AND DEVELOPMENT EXPENDITURES

For the years ended December 31, 2014, 2013 and 2012, our expenditures for research and development activities were \$46.2 million, \$55.3 million and \$39.9 million, respectively. Such research and development expenses primarily related to the advancement of our product candidates custirsen and apatorsen.

MANUFACTURING

We do not own facilities for the manufacture of materials for clinical or commercial use. We rely and expect to continue to rely on contract manufacturers to manufacture our product candidates in accordance with cGMP, for use in clinical trials, as well as for process development as required. We will ultimately depend on contract manufacturers for the manufacture of our products, when and if we have any, for commercial sale.

To date, all active pharmaceutical ingredient, or API, and drug product for custirsen and apatorsen has been manufactured by third parties on a purchase order basis, under cGMP. If our product candidates are approved for commercial sale in the future, we may be required to contract with larger contract manufacturers that can meet higher commercial drug quantities.

INTELLECTUAL PROPERTY

Our success depends in part on our ability and that of our collaborators to obtain and maintain proprietary protection for our product candidates, technology, and know-how, to prevent others from infringing on the proprietary rights of our product candidates, and to operate without infringing on the proprietary rights of others.

Patents

We have a license from UBC and ISIS to use, make, have made, or make improvements upon custirsen, apatorsen and OGX-225. In addition, Isis has assigned a three-member patent family related to clusterin antisense to OncoGenex Technologies, and we have a pending family of applications on an apatorsen formulation.

As discussed above, certain intellectual property rights relating to custirsen have been sublicensed exclusively to Teva, which has subsequently assumed direct control of the prosecution of those rights as custirsen is developed.

We have been granted non-exclusive rights to all intellectual property owned, licensed or otherwise controlled by Isis as of the date of our agreements with Isis that relate to second-generation antisense chemistry and that are required for our product candidates (such as custirsen, apatorsen and OGX-225). Isis is generally restricted from engaging in research, development and commercialization of antisense compounds related to clusterin, Hsp27, IGFBP-5 and IGFBP-2, other than as provided in the collaboration and license agreement related to each target. Isis directs patent prosecution and is responsible for all fees and costs related to the preparation, filing, prosecution and maintenance of these patent rights, which extend to numerous jurisdictions throughout the world. Individual patents have terms of protection depending on the laws of the countries in which the applications are made.

We direct patent prosecution, and are responsible for all fees and costs related to the preparation, filing, prosecution and maintenance of the patent rights for intellectual property under license from UBC covering custirsen, apatorsen and OGX-225. We file patent applications for this intellectual property in the United States, Canada, Europe (through the European Patent Office), Japan and other jurisdictions.

Composition of matter patents covering custirsen and apatorsen have been issued in the United States and certain other jurisdictions. Additional patent applications covering all of these products, as well as other technologies, are pending in the United States and certain other countries.

Generally, patents issued in the United States are effective for 20 years from the earliest non-provisional filing date, if the application from which the patent issues was filed on or after June 8, 1995 (otherwise the term is the longer of 17 years from the issue date and 20 years from the earliest non-provisional filing date). The duration of patent terms for non-U.S. patents is typically 20 years from the earliest corresponding national or international filing date. Our licensed UBC patent estate, based on those patents and applications existing now and expected by us to issue, will expire in years ranging from 2020 to 2024, which dates do not include extensions that may be available. Patent term extensions, specifically to make up for regulatory delays, are available in the United States, Europe and Japan. Although we believe that some or all of our product candidates will meet the criteria for patent term extensions, we can provide no assurance that we will obtain such extensions.

We also rely on unpatented trade secrets, proprietary know-how and continuing technological innovation, which we seek to protect, in part, by confidentiality agreements with our corporate partners, collaborators, employees and consultants in our drug development research. We can provide no assurance that these agreements will not be breached, that we will have adequate remedies for any breach, or that our trade secrets or know-how will not otherwise become known or be independently discovered by competitors. Further, we can provide no assurance that we will be able to protect our trade secrets or that others will not independently develop substantially equivalent proprietary information and techniques.

Trademarks

We own several trademarks registered in the United States, namely word marks ONCOGENEX™, ORCA™, Spruce™, and Rainier™, and design marks ORCA, Cedar, Pacific, Borealis-1, Borealis-2, and the helical totem element that accompanies the clinical trial trademarked identifiers. In Canada, we have corresponding trademark registrations for all but RAINIER™, which is pending, and the Cedar design. We have received notice from Cedars-Sinai that it has petitioned to cancel our trademark for the Cedar design in the United States, and may oppose the trademark in Canada. We are in contact with Cedars-Sinai through its attorneys to arrange an amicable solution.

We can provide no assurance that our registered or unregistered trademarks or trade names will not infringe upon third-party rights or will be acceptable to regulatory agencies.

COMPETITION

The life sciences industry is highly competitive, and we face significant competition from many pharmaceutical, biopharmaceutical and biotechnology companies that are researching and marketing products designed to address cancer indications for which we are currently developing products or for which we may develop products in the future. We are aware of several other companies which are developing therapeutics that seek to promote tumor cell death. Several therapies have been recently approved by the FDA, and we expect more to be approved in the future.

Many oncology drugs in clinical trials are being developed for the four primary indications: lung, breast, colorectal, and prostate cancers. Certain of these drugs are designed, like custirsen, apatorsen and OGX-225, to interfere with mechanisms potentially involved with treatment resistance. If new drugs targeting mechanisms of treatment resistance are approved for sale for the indications that we are evaluating in advance of our product candidates or even after their commercialization, the market's interest in our product candidates may be reduced. We are aware of several other companies developing therapeutic products, whether antisense or otherwise, which seek to promote tumor cell death by inhibiting proteins believed to promote cell survival. Our competitors may seek to identify gene sequences, protein targets or antisense chemistry different from ours, and outside the scope of our intellectual property protection, to develop antisense therapeutics that serve the same function as our product candidates. Our competitors may also seek to use mechanisms other than antisense to inhibit the proteins that our product candidates are designed to inhibit.

Some of our product candidates' development plans include pursuing prostate cancer indications. Substantial advancements in the treatment of prostate cancer have occurred in the past two years and new products from our competitors have been approved for marketing on the basis of showing a survival advantage. Many of our existing and potential competitors have substantially greater financial resources and expertise than we do in manufacturing and developing products, conducting clinical trials, obtaining regulatory approvals and marketing. These entities also compete with us in recruiting and retaining qualified scientific and management personnel, as well as in acquiring products and technologies complementary to our programs. Standard treatments vary considerably by cancer indication, and new drugs may be more effective in treating one cancer indication than another. In addition, cancer is a difficult disease to treat and it is likely that no one therapeutic will replace all other therapies in any particular indication. Therapeutic strategies for treating cancer are increasingly focused on combining a number of drugs in order to yield the best results. Since custirsen and apatorsen are intended to be used in multiple cancer indications and target the tumors' adaptive survival mechanisms,

these drugs may potentially be synergistic with many new and currently marketed therapies. Our ability to compete successfully will depend largely on our ability and, where applicable, the ability of our collaborators to:

- maintain or establish development programs in combination with new agents that may replace or diminish the markets for which we are currently developing our product candidates;
- establish that our product candidates are well tolerated and result in a clinical benefit when administered to cancer patients;
- establish that our product candidates address significant unmet needs for patients, resulting in prioritization of our product candidates over other treatment options;
- advance the development of our lead programs, including the enrollment of patients for our clinical trials;
- gain regulatory approval for our product candidates in their respective first indications as well as expand into additional indications;
- commercialize our lead product candidates successfully, which includes convincing physicians, insurers and other third-party payors of the advantages of our products over current therapies, when and if they have advantages;
- obtain intellectual property protection and protect the exclusivity for our product candidates and products, when and if we have any; and
- acquire other product candidates to expand our pipeline.

EMPLOYEES

As of December 31, 2014, we had a total of 35 employees, of whom 20 were engaged in research and development functions, including clinical development, regulatory affairs and manufacturing, and 15 were engaged in general and administrative functions, including accounting and finance, administration, and corporate communications. None of our 35 employees are employed on a part-time basis.

All of our employees have entered into non-disclosure agreements regarding our intellectual property, trade secrets and other confidential information. None of our employees are represented by a labor union or covered by a collective bargaining agreement, nor have we experienced any work stoppages. We believe that we maintain satisfactory relations with our employees.

From time to time, we also use outside consultants to provide advice on our clinical development plans, research programs, administration and potential acquisitions of new technologies.

FINANCIAL INFORMATION

We manage our operations and allocate resources as a single reporting segment. Financial information regarding our operations, assets and liabilities, including our total revenue and net loss for the years ended December 31, 2014, 2013 and 2012 and our total assets as of December 31, 2014 and 2013, is included in our Consolidated Financial Statements in Part II, Item 8 of this Annual Report on Form 10-K.

COMPANY INFORMATION

We were incorporated in California in October 1991 and subsequently reorganized as a Delaware corporation in March 1995. Our principal executive offices are located at 19820 North Creek Parkway, Bothell Washington 98011, and our telephone number is (425) 686-1500.

In August 2008, our company, then named Sonus Pharmaceuticals, Inc., completed its acquisition, or the Arrangement, of OncoGenex Technologies, a Canadian corporation, as contemplated by the Arrangement Agreement between the companies. We then changed our name to OncoGenex Pharmaceuticals, Inc. As a result of the Arrangement, OncoGenex Technologies became our wholly owned subsidiary. OncoGenex Technologies was incorporated under the federal laws of Canada in May 2000. OncoGenex, Inc., a former subsidiary of OncoGenex Technologies, was incorporated under the laws of Washington in August 2005 and was dissolved pursuant to the Articles of Dissolution filed on July 1, 2009. As used in this Annual Report on Form 10-K, the term "Sonus" refers to our business prior to August 21, 2008.

AVAILABLE INFORMATION

We maintain a website at <http://www.oncogenex.com>. The information contained on or accessible through our website is not part of this Annual Report on Form 10-K. Our Annual Report on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K

and amendments to reports filed or furnished pursuant to Sections 13(a) and 15(d) of the Securities Exchange Act of 1934, as amended, or Exchange Act, are available free of charge on our website as soon as reasonably practicable after we electronically file such reports with, or furnish those reports to, the SEC. Any information we filed with the SEC may be accessed and copied at the SEC's Public Reference Room at 100 F Street NE, Washington, DC 20549. Information may be obtained by calling the SEC at 1-800-SEC-0330. The SEC also maintains an Internet site that contains reports, proxy and information statements, and other information regarding issuers that file electronically with the SEC at <http://www.sec.gov>.

ITEM 1A. RISK FACTORS

Risks Related to Our Business

Investing in our common stock involves a high degree of risk. You should consider carefully the risks and uncertainties described below, together with all of the other information contained in this Annual Report on Form 10-K and in the other periodic and current reports and other documents we file with the Securities and Exchange Commission, before deciding to invest in our common stock. If any of the following risks materialize, our business, financial condition, results of operation and future prospects will likely be materially and adversely affected. In that event, the market price of our common stock could decline and you could lose all or part of your investment.

Risks Related to Our Business

We have incurred losses since inception and anticipate that we will continue to incur losses for the foreseeable future. We have never had any products available for commercial sale and we may never achieve or sustain profitability.

We are a clinical-stage biopharmaceutical company, are not profitable, have incurred losses in each year since our inception and do not expect to become profitable in the foreseeable future. We have never had any products available for commercial sale, and we have not generated any revenue from product sales nor do we anticipate that we will generate revenue from product sales in the foreseeable future. Our revenue to date has been collaboration revenue under the collaboration agreement with Teva, which we are currently negotiating with Teva to terminate. If the collaboration agreement is terminated, we expect that Teva would no longer be responsible for custirsen-related expenses, and we would not receive additional amounts from Teva other than any amounts we receive in connection with the termination of the collaboration agreement. We have not yet submitted any products for approval by regulatory authorities, and we continue to incur research and development and general and administrative expenses related to our operations. We expect to continue to incur losses for the foreseeable future, and we expect these losses to increase as we continue our research activities and conduct development of, and seek regulatory approvals for, our product candidates, and prepare for and begin to commercialize any approved products. If our product candidates fail in clinical trials or do not gain regulatory approval, or if our product candidates do not achieve market acceptance, we may never become profitable. Even if we achieve profitability in the future, we may not be able to sustain profitability in subsequent periods.

If we are unable to successfully negotiate the termination of our collaboration agreement with Teva, our currently planned operations may be significantly harmed.

In December 2014, we and Teva entered into an agreement pursuant to which the parties agreed to cooperate in good faith to negotiate and execute a final termination agreement providing, among other things, for the termination of the parties' collaboration agreement. These negotiations are ongoing, and we cannot provide assurance regarding if or when the collaboration agreement will be terminated, or regarding the full terms under which control of the development of custirsen, including ongoing clinical trials, will be transferred to us. If we are unable to successfully negotiate the termination of our collaboration agreement with Teva, we may not regain control of the development of custirsen and we may be unable to advance the development of our product candidates, particularly custirsen, at all or on desirable terms. The failure of our negotiations with Teva might also result in costly and time-consuming litigation. Any of the above would have a material adverse effect on our business.

If our collaboration agreement with Teva is terminated, it would result in us being required to take over responsibility for conducting the ongoing custirsen trials, and further development of custirsen would require significant resources from us or another collaborator.

If our collaboration agreement with Teva is terminated, we expect to take over responsibility for all custirsen-related expenses, including those related to the ENSPIRIT trial, as well as manufacturing and regulatory activities for the custirsen programs, which were previously managed and funded by Teva. Teva would transition the costs and responsibilities associated with conducting the ongoing custirsen clinical trials to us, and would assign to us certain third-party contracts or relationships related to the ENSPIRIT trial. Some of those third parties may not agree to assignment of the contracts or relationships to us on the same terms they had with Teva, or at all. A transition of clinical development activities may also result in delays or discontinuation of one or more of the custirsen clinical trials, diversion of management's attention, and potential reduction in resources for our other clinical trials.

Additionally, further development of custirsen will require significant resources from us or a collaborator. If our collaboration agreement with Teva is terminated, except for payments required under the final termination agreement, we would not receive any future cash advancements or reimbursements from Teva for costs incurred in connection with the clinical development of custirsen, and we would be required to fund all future development and commercialization ourselves if we were unable to find another collaborator. We will need additional capital or a new collaboration partner to fund the remaining portion of our custirsen development plans. There are no assurances that we will have access to additional capital or will find a new collaboration partner, or that the terms and timing of any such arrangements would be acceptable to us. As a result, we could experience a significant delay in the custirsen development activities or an inability to complete the activities, including one or both of the ongoing phase 3 clinical trials, due to lack of resources. If we discontinue the development of custirsen, or any ongoing clinical trials, we would not receive any future return on our investment from that product candidate.

Unless otherwise terminated, we depend on our collaborative relationship with Teva to further develop and commercialize custirsen, and if our relationship is not successful or is terminated, we may not be able to effectively develop and/or commercialize custirsen, which would have a material adverse effect on our business.

We depend on Teva to collaborate with us to develop and globally commercialize custirsen. Furthermore, under the collaboration agreement, we and Teva must agree on any changes to the Clinical Development Plan for custirsen. As a result of our dependence on Teva, the eventual success or commercial viability of custirsen is largely beyond our control. The financial returns to us, if any, under the collaboration agreement depend in large part on the achievement of development and commercialization milestones, plus a share of any revenue from sales. Therefore, our success, and any associated financial returns to us and our investors, will depend in large part on Teva's performance under the collaboration agreement. We are subject to a number of additional specific risks associated with our dependence on our collaborative relationship with Teva, including:

- adverse decisions by Teva or the Joint Steering Committee regarding the development and commercialization of custirsen;
- possible disagreements as to the timing, nature and extent of our development plans, including clinical trials or regulatory approval strategy or commercialization plan;
- loss of significant rights if we fail to meet our obligations under the collaboration agreement;
- our limited control over clinical trials of custirsen;
- changes in key management personnel at Teva, including in members of the Joint Steering Committee; and
- possible disagreements with Teva regarding the collaboration agreement, including sharing of costs or reimbursements of expenses to us from Teva for clinical trials or ownership of proprietary rights.

If we and Teva are unable to reach an agreement under our clinical development plan, or if either we or Teva fail to perform our respective obligations or effectively manage our relationship, any clinical trial, regulatory approval or development progress could be significantly delayed or halted, could result in costly or time-consuming litigation or arbitration and could have a material adverse effect on our business.

Clinical trials may not demonstrate a clinical benefit of our product candidates.

Positive results from preclinical studies and early clinical trials, including those results from the custirsen or apatosen clinical trials conducted to date, should not be relied on as evidence that later-stage or large-scale clinical trials will succeed. We will be required to demonstrate with substantial evidence through well-controlled clinical trials that our product candidates are safe and effective for use in a diverse population before we can seek regulatory approvals for their commercial sale. Success in early clinical trials does not mean that future clinical trials will be successful because product candidates in later-stage clinical trials may fail to demonstrate sufficient safety and efficacy to the satisfaction of the FDA and other non-U.S. regulatory authorities, despite having progressed through initial clinical trials. Further, preliminary results from our clinical trials may not be confirmed in final data, or may change materially.

Even after the completion of our planned phase 3 clinical trials, the FDA or other non-U.S. regulatory authorities may disagree with our clinical trial design and our interpretation of data, and may require us to conduct additional clinical trials to demonstrate the efficacy of our product candidates.

We are highly dependent on the success of our lead product candidates, custirsen and apatosen, and we cannot give any assurance that they, or any of our other product candidates, will receive regulatory approval or will be successfully commercialized.

In order to market custirsen, we must, among other things, complete ongoing clinical trials, including phase 3 or registration clinical trials, to demonstrate safety and efficacy. In April 2014, we announced that top-line survival results from our phase 3 SYNERGY trial

indicated that the addition of custirsen to standard first-line docetaxel/prednisone therapy did not meet the primary endpoint of a statistically significant improvement in overall survival in men with metastatic CRPC, compared to docetaxel/prednisone alone. We may decide not to continue to advance the development and commercialization of custirsen, which would harm or prevent the commercialization of this product candidate. The failure to further develop and eventually commercialize custirsen could have a material adverse effect on our business and financial condition.

In the second half of 2012, we initiated the AFFINITY trial, in combination with cabazitaxel as second-line chemotherapy in patients with CRPC and initiated an additional registration trial in patients with NSCLC, referred to as the ENSPIRIT trial.

Apatorsen has been evaluated in humans, although we have limited safety and efficacy data in humans. Completing the additional chronic toxicity studies and clinical trials will be required for apatorsen to establish the safety and efficacy of this product candidate. We are conducting parallel clinical trials to evaluate apatorsen in several cancer indications and treatment combinations to accelerate the development of apatorsen.

OGX-225 has not been tested in humans. Our preclinical testing of this product candidate may not be favorable and we may not be able to clinically evaluate OGX-225.

Our clinical development programs for our product candidates may not receive regulatory approval either if such product candidates fail to demonstrate that they are safe and effective in clinical trials and consequently fail to obtain necessary approvals from the FDA, or similar non-U.S. regulatory agencies, or if we have inadequate financial or other resources to advance these product candidates through the clinical trial process. If competitive products developed by third parties show significant benefit in the cancer indications in which we are developing our product candidates, any planned supportive or primary registration trials may be delayed, altered or not initiated and custirsen, apatorsen and our other product candidates may never receive regulatory approval. Any failure to obtain regulatory approval of custirsen, apatorsen or our other product candidates could have a material and adverse effect on our business.

We rely, in part, on third parties to conduct clinical trials for our product candidates and plan to rely on third parties to conduct future clinical trials. If these third parties do not successfully carry out their contractual duties or meet expected deadlines, we may be unable to obtain regulatory approval for or commercialize our current and future product candidates.

To implement our product development strategies, we rely on third parties, such as collaborators, contract research organizations, medical institutions, clinical investigators and contract laboratories, to conduct clinical trials of our product candidates. In particular, if our collaboration agreement with Teva is not terminated, we will have limited control over the two custirsen Phase 3 trials over which Teva has primary oversight. Although we rely on third parties to conduct our clinical trials, we are responsible for ensuring that each of our clinical trials is conducted in accordance with our investigational plan and protocol. Moreover, the FDA and non-U.S. regulatory authorities require us to comply with regulations and standards, commonly referred to as Good Clinical Practices, or GCPs, for conducting, monitoring, recording and reporting the results of clinical trials to ensure that the data and results are scientifically credible and accurate and that the clinical trial subjects are adequately informed of the potential risks of participating in clinical trials. Our reliance on third parties does not relieve us of these responsibilities and requirements. If the third parties conducting our clinical trials do not perform their contractual duties or obligations, do not meet expected deadlines or need to be replaced or if the quality or accuracy of the clinical data they obtain is compromised due to the failure to adhere to GCPs or for any other reason, we may need to enter into new arrangements with alternative third parties and our clinical trials may be extended, delayed or terminated. In addition, a failure by such third parties to perform their obligations in compliance with GCPs may cause our clinical trials to fail to meet regulatory requirements, which may require us to repeat our clinical trials.

Because we depend on financing from third parties for our operations, our business may fail if such financing becomes unavailable or is not available on commercially reasonable terms.

To date, we have financed our operations primarily through the sale of our equity securities and from payments we received pursuant to the collaboration agreement with Teva. We are currently negotiating with Teva to terminate our collaboration agreement. If such negotiations result in termination, we would not receive any future payments from Teva beyond the payments received in connection with such termination. We believe that our existing capital resources and interest on such resources will be sufficient to meet our current operating requirements into the third quarter of 2016. If, however, the ENSPIRIT study continues beyond the second interim futility analysis, patients live longer as a result of new or investigational therapies, the trials proceed slower than expected or are initiated later than expected, we change our development plans, acquire rights to new product candidates or cannot find third-party collaborators for our other product candidates, we will need additional capital sooner than we expect. Our future capital requirements will depend on many factors, including, without limitation:

- the outcome of negotiations with Teva to terminate our collaboration agreement;
- the scope and results of our clinical trials and preclinical studies;

- whether we experience delays in our clinical and preclinical development programs, or slower-than-anticipated product development or rate of events;
- whether we are able to enter into additional third-party collaborative partnerships to develop and/or commercialize any of our other product candidates on terms that are acceptable to us;
- whether we are able to enter into additional third-party collaborative partnerships to develop and/or commercialize any of our product candidates on terms that are acceptable to us;
- the timing and requirements of, and the costs involved in, conducting studies required to obtain regulatory approvals for our product candidates from the FDA and comparable foreign regulatory agencies;
- the availability of third parties to perform the key development tasks for our product candidates, including conducting preclinical studies and clinical trials and manufacturing our product candidates to be tested in those studies and trials and the associated costs of those services;
- the costs involved in preparing, filing, prosecuting, maintaining, defending the validity of and enforcing patent claims and other costs related to patent rights and other intellectual property rights, including litigation costs and the results of such litigation;
- whether we modify our development program, including terminating and starting new trials; and
- whether opportunities to acquire additional product candidates arise and the costs of acquiring and developing those product candidates.

If we are unable to raise funds on acceptable terms when it becomes necessary to do so, we may not be able to continue developing our product candidates, acquire or develop additional product candidates or respond to competitive pressures or unanticipated requirements. For these reasons, any inability to raise additional funds when we require it could have a material adverse effect on our business.

We may seek to partner with third-party collaborators with respect to the development of our product candidates, and we cannot control whether we will be able to do so on favorable terms, if at all.

Our business strategy relies in part on potentially partnering successful product candidates with larger companies to complement our internal development and commercialization efforts. We will be competing with many other companies as we seek partners for our product candidates and may not be able to compete successfully against those companies. If we are not able to enter into collaboration arrangements for our product candidates, we would be required to undertake and fund further development, clinical trials, manufacturing and commercialization activities solely at our own expense and risk. If we are unable to finance and/or successfully execute those expensive activities, our business could be materially and adversely affected, and we may be forced to discontinue clinical development of these product candidates.

Our product candidates may cause undesirable and potentially serious side effects during clinical trials that could delay or prevent their regulatory approval or commercialization.

Since patients in our clinical trials have advanced stages of cancer, we expect that additional adverse events, including serious adverse events, will occur.

Undesirable side effects caused by any of our product candidates could cause us or regulatory authorities to interrupt, delay or halt clinical trials and could result in the denial of regulatory approval by the FDA or non-U.S. regulatory authorities for any or all targeted indications. This, in turn, could prevent us from commercializing our product candidates and generating revenue from their sale. In addition, if our product candidates receive marketing approval and we or others later identify undesirable side effects caused by the product:

- we or Teva may elect to terminate the ongoing clinical trials and cease development of custirsen;
- regulatory authorities may withdraw their approval of the product;
- we may be required to recall the product, change the way the product is administered, conduct additional clinical trials or change the labeling of the product;
- a product may become less competitive and product sales may decrease; and
- our reputation may suffer.

Any one or a combination of these events could prevent us from achieving or maintaining market acceptance of the affected product or could substantially increase the costs and expenses of commercializing the product, which in turn could delay or prevent us from

generating significant revenue from the sale of the product. Recent events have raised questions about the safety of marketed drugs and may result in increased cautiousness by the FDA in reviewing new drugs based on safety, efficacy or other regulatory considerations and may result in significant delays in obtaining regulatory approvals, additional clinical trials being required, or more stringent product labeling requirements. Any delay in obtaining, or the inability to obtain, applicable regulatory approvals would prevent us from commercializing our product candidates.

Our clinical trials may be suspended or terminated at any time, including by the FDA, other regulatory authorities, a Data Safety Monitoring Board overseeing the clinical trial at issue, by a clinical trial site or investigator, by Teva in the case of custirsen or by us. Any failure or significant delay in completing clinical trials for our product candidates could materially harm our financial results and the commercial prospects for our product candidates.

We do not know whether any of our currently planned or on-going clinical trials for custirsen or apatosen will proceed or be completed on schedule, if at all, or, with respect to our other product candidates, whether we will be able to initiate any future preclinical studies or clinical trials, as applicable, beyond those currently planned. The completion of our clinical trials currently in progress could also be substantially delayed or prevented by several factors, including:

- failure of Teva to fulfill its obligation to develop custirsen;
- delay or failure to obtain required future additional funding, when needed, through private or public offerings of our equity securities, debt financings, or the execution of a licensing, partnership or collaboration agreement with a third party for any of our product candidates;
- lack of efficacy evidenced during clinical trials;
- inadequate evidence of clinical benefit or futility;
- slower than expected rates of patient recruitment, enrollment and final analysis;
- failure of patients to complete the clinical trial;
- unforeseen safety issues;
- termination of our clinical trials by one or more clinical trial sites, investigators, data safety monitoring boards, or FDA;
- inability or unwillingness of patients or medical investigators to follow clinical trial protocols;
- inability to monitor patients adequately during or after treatment;
- introduction of competitive products that may impede our ability to retain patients in clinical trials; and
- delay or failure to obtain sufficient manufacturing supply of custirsen or apatosen.

The completion or commencement of future preclinical studies or clinical trials could be substantially delayed or prevented by several factors, including:

- delay or failure to obtain required future additional funding, when needed, through private or public offerings of our equity securities, debt financings, or the execution of a licensing, partnership or collaboration agreement with a third party for any of our product candidates;
- delay or failure to obtain sufficient manufacturing supply of custirsen or apatosen;
- limited number of, and competition for, suitable patients with the particular types of cancer required for enrollment in our clinical trials;
- limited number of, and competition for, suitable sites to conduct clinical trials;
- introduction of new product candidates to the market in therapeutic areas similar to those that we are developing for our product candidates;
- concurrent evaluation of new investigational product candidates in therapeutic areas similar to those that we are developing for our product candidates;
- delay or failure to obtain the FDA's or non-U.S. regulatory agencies' approval or agreement to commence a clinical trial, including our phase 3 or registration clinical trials or amendment of those trials;
- delay or failure to obtain sufficient supplies, including comparator drug, for our clinical trials; delay or failure to reach agreement on acceptable clinical trial agreement terms or clinical trial protocols with prospective sites or investigators;

- delay or failure to obtain the approval of the Institutional Review Board to conduct a clinical trial at a prospective site; and
- our decision to alter the development strategy for one or more clinical or preclinical products.

If we were to be successfully sued related to our products or operations, we could face substantial liabilities that may exceed our resources.

We may be held liable if any of our products or operations cause injury or death or are found otherwise unsuitable during product testing, manufacturing, marketing or sale. These risks are inherent in the development of pharmaceutical products. We currently maintain commercial general and umbrella liability policies with combined limits of \$10 million per occurrence and in the aggregate, in addition to a \$10 million per claim and annual aggregate product liability insurance policy related to our clinical trials consistent with industry standards. When necessary for our products, we intend to obtain additional product liability insurance. Insurance coverage may be prohibitively expensive, may not fully cover potential liabilities or may not be available in the future. Inability to obtain sufficient insurance coverage at an acceptable cost or otherwise to protect against potential product liability claims could prevent or inhibit the commercialization of our products. If we were to be sued for any injury caused by or associated with our products or operations, the litigation could consume substantial time and attention of our management, and the resulting liability could exceed our total assets.

If our competitors develop and market products that are more effective, safer or less expensive than our future product candidates, our clinical trials and commercial opportunities will be negatively affected.

The life sciences industry is highly competitive, and we face significant competition from many pharmaceutical, biopharmaceutical and biotechnology companies that are researching and marketing products designed to address cancer indications for which we are currently developing products or for which we may develop products in the future. We are aware of several other companies that are developing therapeutics that seek to promote tumor cell death. Any products we may develop in the future are also likely to face competition from other drugs and therapies. Many of our competitors have significantly greater financial, manufacturing, marketing and drug development resources than we do. Large pharmaceutical companies, in particular, have extensive experience in clinical testing and in obtaining regulatory approvals for drugs. These companies also have significantly greater research and marketing capabilities than we do. In addition, many universities and private and public research institutes are, or may become, active in cancer research, and develop products that may directly compete with ours. If our competitors market products that are more effective, safer or less expensive than our future product candidates, if any, or that reach the market sooner than our future product candidates, if any, we may not achieve commercial success.

If new therapies become broadly used, we may need to conduct clinical trials of our product candidates in combination with these new therapies to demonstrate safety and efficacy of the combination. Additional trials will delay the development of our product candidates and increase our costs. The failure of certain of our product candidates to work in combination with these new therapies would have an adverse effect on our business.

Our intention is to combine certain of our product candidates with therapies that are broadly used by clinicians and considered highly effective. As new therapies are developed, we will need to assess these therapies to determine whether to conduct clinical trials of our product candidates in combination with them to demonstrate safety and efficacy of the combination. If we determine that it is appropriate to conduct additional clinical trials of our product candidates in combination with these new therapies, the development of our product candidates will be delayed and our costs will be increased. If these clinical trials generate safety concerns or lack of efficacy, our business would be adversely affected.

We rely on third parties to manufacture and supply our product candidates and other agents used in our clinical trials. A decrease in the availability or quality of any of these products or agents could increase clinical trial costs, delay or halt clinical development or regulatory approval of our product candidates or commercialization of our future product candidates, resulting in additional losses and depriving us of potential product revenue.

We do not own or operate manufacturing facilities, and we depend on third-party contract manufacturers for production of all of our product candidates and rely on other companies and their manufacturers for other agents used in all of our clinical trials. We lack the resources and the capability to manufacture any of our product candidates ourselves. To date, our product candidates have been manufactured in limited quantities for preclinical studies and clinical trials. All active pharmaceutical ingredients, or API, and drug product for custirsen and apatorsen have been manufactured for us by third parties pursuant to a purchase order or short-term contract that has been fulfilled.

If, in the future, one of our product candidates is approved for commercial sale, we, or a pharmaceutical partner that has licensed such product candidate, will need to manufacture that product candidate in commercial quantities. We cannot provide assurance that the third-party manufacturers with which we have contracted in the past will have sufficient capacity to satisfy our future manufacturing needs, that we will be able to negotiate additional purchases of API or drug product from these or alternative manufacturers on terms favorable to us, if at all, or that a pharmaceutical partner that has licensed such product candidate will have sufficient capacity or expertise to satisfy future needs.

Third-party manufacturers may fail to perform under their contractual obligations, or may fail to deliver the required commercial quantities of bulk API or finished drug product on a timely basis and at commercially reasonable prices. We have experienced manufacturing quality issues resulting in an unusable lot of product candidate in the past. Any performance failure on the part of our contract manufacturers could delay clinical development or regulatory approval of our product candidates or commercialization of our future product candidates, depriving us of potential product revenue and resulting in additional losses. If we are required to identify and qualify an alternate manufacturer, we may be forced to delay or suspend our clinical trials, regulatory submissions, required approvals or commercialization of our product candidates, which may cause us to incur higher costs and could prevent us from commercializing our product candidates successfully. If we are unable to find one or more replacement manufacturers capable of production at a reasonably favorable cost, in adequate volumes, of adequate quality and on a timely basis, we would likely be unable to meet demand for our product candidates and our clinical trials could be delayed or we could lose potential revenue. Our ability to replace an existing API manufacturer may be difficult because the number of potential manufacturers is limited to approximately five manufacturers, and the FDA must inspect any replacement manufacturer and review information related to product produced at the manufacturer before they can begin manufacturing our product candidates. It may be difficult or impossible for us to identify and engage a replacement manufacturer on acceptable terms in a timely manner, if at all. We expect to continue to depend on third-party contract manufacturers for the foreseeable future.

Our product candidates require precise, high-quality manufacturing. Any of our contract manufacturers will be subject to ongoing periodic unannounced inspection by the FDA and non-U.S. regulatory authorities to ensure strict compliance with current Good Manufacturing Practices, or cGMP, and other applicable government regulations and corresponding standards. If our contract manufacturers fail to achieve and maintain high manufacturing standards in compliance with cGMP regulations, we may experience manufacturing errors resulting in patient injury or death, product recalls or withdrawals, delays or interruptions of production or failures in product testing or delivery, delay or prevention of filing or approval of marketing applications for our product candidates, cost overruns or other problems that could seriously affect our business.

Significant manufacturing scale-up may require additional validation studies, which the FDA must review and approve. Additionally, any third-party manufacturers we retain to manufacture our product candidates on a commercial scale must pass an FDA pre-approval inspection for conformance to cGMP regulations before we can obtain approval of our product candidates. If we are unable to successfully increase the manufacturing capacity for a product candidate in conformance with cGMP regulations, the regulatory approval or commercial launch of any related products may be delayed or there may be a shortage in supply.

We also rely on third-parties for the provision of other agents used in our clinical trials, and in some circumstances these agents are provided to us at no cost. We have no assurance that these third-parties will continue to provide their products to us at no cost.

Even if we receive regulatory approval to market our product candidates, the market may not be receptive to our products.

Even if our product candidates obtain regulatory approval, they may not gain market acceptance among physicians, patients, healthcare payors and/or the medical community. We believe that the degree of market acceptance will depend on a number of factors, including:

- timing of market introduction of competitive products;
- safety and efficacy of our products;
- prevalence and severity of any side effects;
- potential advantages or disadvantages over alternative treatments;
- strength of marketing and distribution support;
- price of our products, both in absolute terms and relative to alternative treatments; and
- availability of coverage and reimbursement from government and other third-party payors.

If our future product candidates fail to achieve market acceptance, we may not be able to generate significant revenue or achieve or sustain profitability.

We will need to retain additional personnel and expand our other resources in order to develop our other product candidates. If we fail to effectively expand our operations, including attracting and retaining key management and scientific personnel, we may be unable to successfully develop or commercialize our product candidates and our business may be materially adversely affected.

We will need to expand and effectively manage our managerial, operational, financial, development and other resources in order to successfully pursue our development and commercialization efforts for custirsen, if our collaboration agreement with Teva is terminated and we have not partnered with other third-party collaborators, and for our other existing and future product candidates. Our success depends on our continued ability to attract, retain and motivate highly qualified personnel, such as management, clinical and preclinical personnel, including our executive officers Scott Cormack, John Bencich and Cindy Jacobs. In addition, although we have entered into employment agreements with each of Mr. Cormack, Mr. Bencich and Dr. Jacobs, such agreements permit the executive to terminate his or her employment with us at any time, subject to providing us with advance written notice.

Should custirsen receive marketing approval in the United States and Canada, we would need to hire a substantial number of specialized personnel, including field-based medical affairs representatives. In turn, we would need to increase our administrative headcount to support such expanded development and commercialization operations with respect to our product candidates. Our ability to attract and retain qualified personnel in the future is subject to intense competition for qualified personnel among biotechnology, pharmaceutical and other businesses and our current financial position. The loss of the services of any of our senior management could delay or prevent the development and commercialization of our product candidates, or have other adverse effects on our business for an indefinite term. In particular, if we lose any members of our current senior management team, we may not be able to find suitable replacements in a timely fashion, if at all, and our business may be harmed as a result.

We have scientific and clinical advisors who assist us in formulating our development and clinical strategies. These advisors are not our employees and may have commitments to, or consulting or advisory contracts with, other entities that may limit their availability to us. In addition, our advisors may have arrangements with other companies to assist those companies in developing products or technologies that may compete with ours.

If we fail to acquire and develop products or product candidates at all or on commercially reasonable terms, we may be unable to grow our business.

We currently do not have internal discovery capabilities and depend on pharmaceutical and biotechnology companies and other researchers to sell or license products or product candidates to us. To date, three of our product candidates have been derived from technologies discovered by the Vancouver Prostate Centre and licensed to us by UBC. We intend to continue to rely on research institutions and other biotechnology or pharmaceutical companies as sources of product candidates. We cannot guarantee that the Vancouver Prostate Centre or UBC will continue to develop new product candidate opportunities, that we will continue to have access to such opportunities or that we will be able to purchase or license these product candidates on commercially reasonable terms, if at all. If we are unable to purchase or license new product candidates from the Vancouver Prostate Centre or UBC, we will be required to identify alternative sources of product candidates.

The success of our product pipeline strategy depends on our ability to identify, select and acquire pharmaceutical product candidates. Proposing, negotiating and implementing an economically viable product acquisition or license is a lengthy and complex process. We compete for partnering arrangements and license agreements with pharmaceutical and biotechnology companies and academic research institutions. Our competitors may have stronger relationships with third parties with whom we are interested in collaborating and/or may have more established histories of developing and commercializing products. As a result, our competitors may have a competitive advantage in entering into partnering arrangements with such third parties. In addition, even if we find promising product candidates, and generate interest in a partnering or strategic arrangement to acquire such product candidates, we may not be able to acquire rights to additional product candidates or approved products on terms that we find acceptable, if at all. If we fail to acquire and develop product candidates from others, we may be unable to grow our business.

We expect that any product candidate that we acquire rights to will require additional development efforts prior to commercial sale, including extensive clinical evaluation and approval by the FDA and non-U.S. regulatory authorities. All product candidates are subject to the risks of failure inherent in pharmaceutical product development, including the possibility that the product candidate will not be shown to be sufficiently safe and effective for approval by regulatory authorities. Even if the product candidates are approved, we can make no assurance that we would be capable of economically producing the product or that the product would be commercially successful.

We may encounter difficulties in managing our expected growth and in expanding our operations successfully.

As we advance our product candidates through development, we will need to develop or expand our development, regulatory, manufacturing, marketing and sales capabilities or contract with third parties to provide these capabilities for us. Maintaining additional relationships and managing our future growth will impose significant added responsibilities on members of our management. We must be able to manage our development efforts effectively, manage our clinical trials effectively, hire, train and

integrate additional management, development, administrative and sales and marketing personnel, improve our managerial, development, operational and finance systems, and expand our facilities, all of which may impose a strain on our administrative and operational infrastructure.

Furthermore, we may acquire additional businesses, products or product candidates that complement or augment our existing business. Integrating any newly acquired business, product or product candidate could be expensive and time-consuming. We may not be able to integrate any acquired business, product or product candidate successfully or operate any acquired business profitably. Our future financial performance will depend, in part, on our ability to manage any future growth effectively and our ability to integrate any acquired businesses. We may not be able to accomplish these tasks, which failure could prevent us from successfully growing our business.

We may be adversely affected if our controls over financial reporting fail or are circumvented.

We regularly review and update our internal controls, disclosure controls and procedures, and corporate governance policies. In addition, we are required under the Sarbanes Oxley Act of 2002 to report annually on our internal control over financial reporting. If it were to be determined that our internal control over financial reporting is not effective, such shortcoming could have an adverse effect on our business and financial results and the price of our common stock could be negatively affected. This reporting requirement could also make it more difficult or more costly for us to obtain certain types of insurance, including director and officer liability insurance, and we may be forced to accept reduced policy limits and coverage or incur substantially higher costs to obtain the same or similar coverage. Any system of internal controls, however well designed and operated, is based in part on certain assumptions and can provide only reasonable, not absolute, assurances that the objectives of the system are met. Any failure or circumvention of the controls and procedures or failure to comply with regulation concerning control and procedures could have a material effect on our business, results of operation and financial condition. Any of these events could result in an adverse reaction in the financial marketplace due to a loss of investor confidence in the reliability of our financial statements, which ultimately could negatively affect the market price of our shares, increase the volatility of our stock price and adversely affect our ability to raise additional funding. The effect of these events could also make it more difficult for us to attract and retain qualified persons to serve on our Board and our Board committees and as executive officers.

Risks Related to Our Intellectual Property

Our proprietary rights may not adequately protect our technologies and product candidates.

Our commercial success will depend on our ability to obtain patents and/or regulatory exclusivity and maintain adequate protection for our technologies and product candidates in the United States and other countries. We will be able to protect our proprietary rights from unauthorized use by third parties only to the extent that our proprietary technologies and future product candidates are covered by valid and enforceable patents or are effectively maintained as trade secrets.

We and our collaborators intend to apply for additional patents covering both our technologies and product candidates, as we deem appropriate. We or our collaborators may, however, fail to apply for patents on important technologies or product candidates in a timely fashion, if at all. Our existing patents and any future patents we or our collaborators obtain may not be sufficiently broad to prevent others from practicing our technologies or from developing competing products and technologies. In addition, we do not always control the patent prosecution of subject matter that we license from others. Accordingly, we are sometimes unable to exercise a significant degree of control over such intellectual property as we would over our own.

Moreover, the patent positions of biopharmaceutical companies are highly uncertain and involve complex legal and factual questions for which important legal principles remain unresolved. As a result, the validity and enforceability of our patents cannot be predicted with certainty. In addition, the U.S. Supreme Court has revised certain tests regarding granting patents and assessing the validity of patents to make it more difficult to obtain patents. As a consequence, issued patents may be found to contain invalid claims according to the revised standards. Some of our patents or those of our collaborators may be subject to challenge and subsequent invalidation or significant narrowing of claim scope in a re-examination proceeding, or during litigation, under the revised criteria. We cannot guarantee that:

- we or our licensors were the first to make the inventions covered by each of our issued patents and pending patent applications;
- we or our licensors were the first to file patent applications for these inventions;
- others will not independently develop similar or alternative technologies or duplicate any of our technologies;
- any of our or our licensors' pending patent applications will result in issued patents;
- any of our or our licensors' patents will be valid or enforceable;

- any patents issued to us or our licensors and collaboration partners will provide us with any competitive advantages, or will not be challenged by third parties; and
- we will develop additional proprietary technologies that are patentable, or the patents of others will not have an adverse effect on our business.

The actual protection afforded by a patent varies on a product-by-product basis, from country to country and depends on many factors, including the type of patent, the scope of its coverage, the availability of regulatory related extensions, the availability of legal remedies in a particular country and the validity and enforceability of the patents. Our ability or the ability of our collaborators to maintain and solidify our proprietary position for our product candidates will depend on our success in obtaining effective claims and enforcing those claims once granted. Our issued patents and those that may issue in the future, or those licensed to us or our collaborators, may be challenged, invalidated, unenforceable or circumvented, and the rights granted under any issued patents may not provide us with proprietary protection or competitive advantages against competitors with similar products. Due to the extensive amount of time required for the development, testing and regulatory review of a potential product, it is possible that, before any of our product candidates can be commercialized, any related patent may expire or remain in force for only a short period following commercialization, thereby reducing any advantage of the patent.

We and our collaborators also rely on trade secrets to protect some of our technology, especially where it is believed that patent protection is appropriate or obtainable. However, trade secrets are difficult to maintain. While we use reasonable efforts to protect our trade secrets, our or our collaboration partners' employees, consultants, contractors or scientific and other advisors may unintentionally or willfully disclose our proprietary information to competitors. Enforcement of claims that a third party has illegally obtained and is using trade secrets is expensive, time consuming and uncertain. In addition, non-U.S. courts are sometimes less willing than U.S. courts to protect trade secrets. If our competitors independently develop equivalent knowledge, methods and know-how, we would not be able to assert our trade secrets against them and our business could be harmed.

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

Filing, prosecuting and defending patents on all of our product candidates and products, when and if we have any, in every jurisdiction would be prohibitively expensive. Competitors may use our technologies in jurisdictions where we or our licensors have not obtained patent protection to develop their own products. These products may compete with our products, when and if we have any, and may not be covered by any of our or our licensors' patent claims or other intellectual property rights.

The laws of some non-U.S. countries do not protect intellectual property rights to the same extent as the laws of the United States, and many companies have encountered significant problems in protecting and defending such rights in foreign jurisdictions. The legal systems of certain countries, particularly certain developing countries, do not favor the enforcement of patents and other intellectual property protection, particularly those relating to biotechnology and/or pharmaceuticals, which could make it difficult for us to stop the infringement of our patents. Proceedings to enforce our patent rights in foreign jurisdictions could result in substantial cost and divert our efforts and attention from other aspects of our business.

We may become involved in disputes with past or potential future collaborators over intellectual property ownership, and publications by our research collaborators and scientific advisors could impair our ability to obtain patent protection or protect our proprietary information, which, in either case, could have a significant effect on our business.

Inventions discovered under research, material transfer or other such collaborative agreements may become jointly owned by us and the other party to such agreements in some cases and the exclusive property of either party in other cases. Under some circumstances, it may be difficult to determine who owns a particular invention, or whether it is jointly owned, and disputes could arise regarding ownership of those inventions. These disputes could be costly and time consuming and an unfavorable outcome could have a significant adverse effect on our business if we were not able to protect or license rights to these inventions. In addition, our research collaborators and scientific advisors generally have contractual rights to publish our data and other proprietary information, subject to our prior review. Publications by our research collaborators and scientific advisors containing such information, either with our permission or in contravention of the terms of their agreements with us, may impair our ability to obtain patent protection or protect our proprietary information, which could significantly harm our business.

The intellectual property protection for our product candidates depends on third parties.

With respect to custirsen, apatorsen and OGX-225, we have exclusively licensed from UBC certain issued patents and pending patent applications covering the respective antisense sequences underlying these product candidates and their commercialization and use, and we have licensed from Isis certain issued patents and pending patent applications directed to product compositions and chemical modifications used in product candidates for commercialization, use and the manufacturing thereof, as well as some alternative antisense sequences. We have also received a sublicense from Isis under certain third-party patent portfolios directed to such modifications.

The patents and pending patent applications underlying our licenses do not cover all potential product candidates, modifications and uses. In the case of patents and patent applications licensed from Isis, we do not have and have not had any control over the filing, prosecution or enforcement of these patents or patent applications. We cannot be certain that such prosecution efforts have been or will be conducted in compliance with applicable laws and regulations or will result in valid and enforceable patents. We also cannot be assured that our licensors or their respective licensing partners will agree to enforce any such patent rights at our request or devote sufficient efforts to attain a desirable result. Any failure by our licensors or any of their respective licensing partners to properly protect the intellectual property rights relating to our product candidates could have a material adverse effect on our financial condition and results of operation.

The patent protection for our product candidates or products may expire before we are able to maximize their commercial value, which may subject us to increased competition and reduce or eliminate our opportunity to generate product revenue.

The patents for our product candidates have varying expiration dates and, when these patents expire, we may be subject to increased competition and we may not be able to recover our development costs. For example, certain of the U.S. patents directed to usticrsen and its use that have been licensed from UBC are scheduled to expire in 2020 and 2021. In some of the larger economic territories, such as the United States and Europe, patent term extension/restoration may be available to compensate for time taken during aspects of the product candidate's regulatory review. We cannot, however, be certain that an extension will be granted or, if granted, what the applicable time period or the scope of patent protection afforded during any extended period will be. In addition, even though some regulatory agencies may provide some other exclusivity for a product candidate under its own laws and regulations, we may not be able to qualify the product candidate or obtain the exclusive time period.

If we are unable to obtain patent term extension/restoration or some other exclusivity, we could be subject to increased competition and our opportunity to establish or maintain product revenue could be substantially reduced or eliminated. Furthermore, we may not have sufficient time to recover our development costs prior to the expiration of our U.S. and non-U.S. patents.

We may incur substantial costs as a result of litigation or other proceedings relating to patent and other intellectual property rights and we may be unable to protect our rights to, or use of, our technology.

If we choose to go to court to stop someone else from using the inventions claimed in our patents or our licensed patents, that individual or company has the right to ask the court to rule that these patents are invalid and/or should not be enforced against that third party. These lawsuits are expensive and would consume time and other resources even if we were successful in stopping the infringement of these patents. In addition, there is a risk that the court will decide that these patents are invalid or unenforceable and that we do not have the right to stop the other party from using the inventions. The U.S. Supreme Court has revised certain tests regarding granting patents and assessing the validity of patents to make it more difficult to obtain patents. Some of our issued patents may be subject to challenge and subsequent invalidation under the revised criteria. There is also the risk that, even if the validity or unenforceability of these patents is upheld, the court will narrow the scope of our claim or will refuse to stop the other party on the grounds that such other party's activities do not infringe our rights.

If we wish to use the technology or compound claimed in issued and unexpired patents owned by others, we will need to obtain a license from the owner, enter into litigation to challenge the validity or enforceability of the patents or incur the risk of litigation in the event that the owner asserts that we infringed its patents. The failure to obtain a license to technology or the failure to challenge an issued patent that we may require to discover, develop or commercialize our product candidates may have a material adverse effect on us.

If a third party asserts that we infringed its patents or other proprietary rights, we could face a number of risks that could seriously harm our results of operations, financial condition and competitive position, including:

- patent infringement and other intellectual property claims, which would be costly and time consuming to defend, whether or not the claims have merit, and which could delay the regulatory approval process and divert management's attention from our business;
- substantial damages for past infringement, which we may have to pay if a court determines that our product candidates or technologies infringe a competitor's patent or other proprietary rights;
- a court prohibiting us from selling or licensing our technologies or future drugs unless the third party licenses its patents or other proprietary rights to us on commercially reasonable terms, which it is not required to do; and
- if a license is available from a third party, we may have to pay substantial royalties or lump-sum payments or grant cross licenses to our patents or other proprietary rights to obtain that license.

The biotechnology industry has produced a proliferation of patents, and it is not always 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. If we are sued for patent infringement, we would need to demonstrate that our product candidates or methods of use either do not infringe the patent claims of the relevant patent, and/or that the patent claims are invalid, and/or that the patent is unenforceable and we may not be able to do this. Proving invalidity, in particular, is difficult since it requires a showing of clear and convincing evidence to overcome the presumption of validity enjoyed by issued patents.

U.S. patent laws as well as the laws of some foreign jurisdictions provide for provisional rights in published patent applications beginning on the date of publication, including the right to obtain reasonable royalties, if a patent subsequently issues and certain other conditions are met.

Because some patent applications in the United States may be maintained in secrecy until the patents are issued, because patent applications in the United States and many foreign jurisdictions are typically not published until 18 months after filing and because publications in the scientific literature often lag behind actual discoveries, we cannot be certain that others have not filed patent applications for technology covered by our licensors' issued patents or our pending applications or our licensors' pending applications, or that we or our licensors were the first to invent the technology.

Patent applications filed by third parties that cover technology similar to ours may have priority over our or our licensors' patent applications and could further require us to obtain rights to issued patents covering such technologies. If another party files a U.S. patent application on an invention similar to ours, we may elect to participate in or be drawn into an interference proceeding declared by the U.S. Patent and Trademark Office to determine priority of invention in the United States. The costs of these proceedings could be substantial, and it is possible that such efforts would be unsuccessful, resulting in a loss of our U.S. patent position with respect to such inventions. Some of our competitors may be able to sustain the costs of complex patent litigation more effectively than we can because they have substantially greater resources. In addition, any uncertainties resulting from the initiation and continuation of any litigation could have a material adverse effect on our ability to raise the funds necessary to continue our operations. We cannot predict whether third parties will assert these claims against us or against the licensors of technology licensed to us, or whether those claims will harm our business. If we are forced to defend against these claims, whether they are with or without any merit and whether they are resolved in favor of or against us or our licensors, we may face costly litigation and diversion of management's attention and resources. As a result of these disputes, we may have to develop costly non-infringing technology, or enter into licensing agreements. These agreements, if necessary, may be unavailable on terms acceptable to us, if at all, which could seriously harm our business or financial condition.

If we breach any of the agreements under which we license rights to our product candidates or technology from third parties, we could lose license rights that are important to our business. Certain of our license agreements may not provide an adequate remedy for a breach by the licensor.

We license the development and commercialization rights for most of our product candidates, including custirsén, apatørsén and OGX-225, and we expect to enter into similar licenses in the future. Under such licenses, we are subject to various obligations such as sublicensing, royalty and milestone payments, annual maintenance fees, limits on sublicensing, insurance obligations and the obligation to use commercially reasonable best efforts to develop and exploit the licensed technology. If we fail to comply with any of these obligations or otherwise breach these agreements, our licensors may have the right to terminate the license in whole or in part or to terminate the exclusive nature of the license. Loss of any of these licenses or the exclusivity rights provided by the licenses could harm our financial condition and results of operations. In addition, certain of our license agreements with UBC eliminate our ability to obtain money damages in respect of certain claims against UBC.

We may be subject to damages resulting from claims that we, or our employees or consultants, have wrongfully used or disclosed alleged trade secrets of third parties.

Many of our employees were previously employed, and certain of our consultants are currently employed, at universities or biotechnology or pharmaceutical companies, including our competitors or potential competitors. Although we have not received any claim to date, we may be subject to claims that these employees or consultants or we have inadvertently or otherwise used or disclosed trade secrets or other proprietary information of these current or former employers. Litigation may be necessary to defend against these claims. If we fail in defending such claims, in addition to paying monetary damages, we may lose valuable intellectual property rights or personnel. We may be subject to claims that employees of our partners or licensors of technology licensed by us have inadvertently or otherwise used or disclosed trade secrets or other proprietary information of their former employers. We may become involved in litigation to defend against these claims. If we fail in defending such claims, in addition to paying monetary damages, we may lose valuable intellectual property rights or personnel.

Risks Related to our Common Stock

The price for our common stock is volatile.

The market prices for our common stock and that of emerging life science companies generally have historically been highly volatile. For example, after the announcement of the top line survival results of our phase 3 SYNERGY trial, we experienced a significant decrease in our stock price. Future announcements concerning us, the results of our clinical trials or our competitors may also have a significant effect on the market price of our common stock. The stock markets also experience significant price and volume fluctuation unrelated to the operating performance of particular companies. These market fluctuations may also adversely affect the market price of our common stock.

An increase in the market price of our common stock, which is uncertain and unpredictable, may be the sole source of gain from an investment in our common stock. An investment in our common stock may not be appropriate for investors who require dividend income. We have never declared or paid cash dividends on our capital stock and do not anticipate paying any cash dividends on our capital stock in the foreseeable future. We currently intend to retain all available funds and any future earnings to fund the development and growth of our business. As a result, capital appreciation, if any, of our common stock will be the sole source of gain for stockholders for the foreseeable future. Accordingly, an investment in our common stock may not be appropriate for investors who require dividend income or investors who are not prepared to bear a significant risk of losses from such an investment.

We are at risk of securities class action litigation.

In the past, securities class action litigation has often been brought against a company following a decline in the market price of its securities, including in circumstances where such declines occur in close proximity to the announcement of clinical trial results. This risk is especially relevant for us because our stock price and those of other biotechnology and biopharmaceutical companies have experienced significant stock price volatility in recent years. If we face such litigation, it could result in substantial costs and a diversion of management's attention and resources, which could harm our business.

If we raise additional capital, the terms of the financing transactions may cause dilution to existing stockholders or contain terms that are not favorable to us.

To date, our sources of cash have been limited primarily to proceeds from the private or public placement of our securities and proceeds from the collaboration agreement with Teva. In the future, we may seek to raise additional financing through private placements or public offerings of our equity or debt securities. Additionally, for so long as our non-affiliate public float does not exceed \$75 million, the amount of securities that we may sell pursuant to our shelf registration statement on Form S-3 will be limited. We may be limited by the amount of authorized capital currently available to us and cannot be assured that an increase in our authorized capital will occur. We cannot be certain that additional funding will be available on acceptable terms, if at all. To the extent that we raise additional financing by issuing equity securities, we may do so at a price per share that represents a discount to the then-current per share trading price of our common stock and our stockholders may experience significant dilution. Any debt financing, if available, may involve restrictive covenants, such as limitations on our ability to incur additional indebtedness, limitations on our ability to acquire or license intellectual property rights and other operating restrictions that could adversely affect our ability to conduct our business.

Anti-takeover provisions in our stockholder rights plan, our charter documents and under Delaware law could make a third-party acquisition of us difficult.

We have a stockholder rights plan that may have the effect of discouraging unsolicited takeover proposals. Specifically, the rights issued under the stockholder rights plan could cause significant dilution to a person or group that attempts to acquire us on terms not approved in advance by our Board. In addition, our certificate of incorporation and bylaws contain provisions that may discourage unsolicited takeover proposals that stockholders may consider to be in their best interests. These provisions include the ability of our Board to designate the terms of and issue new series of preferred stock and the ability of our Board to amend our bylaws without stockholder approval. In addition, as a Delaware corporation, we are subject to Section 203 of the Delaware General Corporation Law, which generally prohibits a Delaware corporation from engaging in any business combination with any interested stockholder for a period of three years following the date that the stockholder became an interested stockholder, unless certain specific requirements are met as set forth in Section 203. Collectively, these provisions could make a third-party acquisition of us difficult or could discourage transactions that otherwise could involve payment of a premium over prevailing market prices for our common stock.

The sale of shares of common stock through our at-the-market equity offering program may cause the price of our common stock to decline and result in dilution to our existing stockholders.

Pursuant to our at-the-market equity offering program, we may sell shares of our common stock from time to time through MLV & Co. LLC, or MLV, as our sales agent. As of December 31, 2014, we had offered and sold 809,214 shares of our common stock pursuant to our "at the market" equity offering program, resulting in net proceeds to us of approximately \$2.9 million. Shares of our

common stock having a value of approximately \$22.0 million remain available for sale under this program. When we access the at-the-market equity offering program, we set the parameters for the sale of shares, including the number of shares to be issued, the time period during which sales are requested to be made, limitation on the number of shares that may be sold in any one trading day and any minimum price below which sales may not be made. Subject to the terms and conditions of our Sales Agreement with MLV, they may sell the shares by methods deemed to be an “at the market” offering as defined in Rule 415 under the Securities Act, including by means of ordinary brokers’ transactions on The NASDAQ Capital Market or otherwise at market prices prevailing at the time of sale, in block transactions, or as otherwise agreed upon by us and MLV. The sale of additional shares of our common stock pursuant to our Sales Agreement with MLV will have a dilutive impact on our existing stockholders. Sales by us through MLV could cause the market price of our common stock to decline significantly. Sales of our common stock under the Sales Agreement, or the perception that such sales will occur, could also encourage short sales by third parties, which could contribute to the further decline of our stock price. Additionally, the sale of a substantial number of shares of our common stock under the Sales Agreement, or the perception that such sales will occur, could make it more difficult for us to sell equity or equity-related securities in the future at a time and at a price that we might otherwise wish.

Risks Related to Our Industry

There is a high risk that our drug development activities will not result in commercial products.

Our product candidates are in various stages of development and are prone to the risks of failure inherent in drug development. We will need to complete significant additional clinical trials before we can demonstrate that our product candidates are safe and effective to the satisfaction of the FDA and non-U.S. regulatory authorities. Clinical trials are expensive and uncertain processes that take years to complete. Failure can occur at any stage of the process, and successful early clinical trials do not ensure that later clinical trials will be successful. Product candidates in later-stage clinical trials may fail to show desired efficacy and safety traits despite having progressed through initial clinical trials. For example, in April 2014, we announced that top-line survival results indicated that the addition of custirsen to standard first-line docetaxel/prednisone therapy did not meet the primary endpoint of a statistically significant improvement in overall survival in men with metastatic CRPC, compared to docetaxel/prednisone alone. A number of companies in the pharmaceutical industry have suffered significant setbacks in advanced clinical trials, even after obtaining promising results in earlier clinical trials. In addition, a clinical trial may prove successful with respect to a secondary objective, but fail to demonstrate clinically significant benefits with respect to a primary objective. Failure to satisfy a primary objective in a phase 3 clinical trial (registration trial) would generally mean that a product candidate would not receive regulatory approval.

The regulatory approval process is expensive, time consuming and uncertain and may prevent us from obtaining approvals for the commercialization of some or all of our product candidates.

The research, testing, manufacturing, labeling, approval, selling, marketing and distribution of drug products are subject to extensive regulation by the FDA and non-U.S. regulatory authorities, which regulations differ from country to country. We are not permitted to market our product candidates in the United States until we receive approval of an NDA from the FDA. We have not submitted an application for or received marketing approval for any of our product candidates. Obtaining approval of an NDA can be a lengthy, expensive and uncertain process. In addition, failure to comply with FDA, non-U.S. regulatory authorities’ or other applicable United States and non-U.S. regulatory requirements may, either before or after product approval, if any, subject us to administrative or judicially imposed sanctions, including:

- restrictions on the products, manufacturers or manufacturing process;
- warning letters;
- civil and criminal penalties;
- injunctions;
- suspension or withdrawal of regulatory approvals;
- product seizures, detentions or import bans;
- voluntary or mandatory product recalls and publicity requirements;
- total or partial suspension of production;
- imposition of restrictions on operations, including costly new manufacturing requirements; and
- refusal to approve pending NDAs or supplements to approved NDAs.

Regulatory approval of an NDA or NDA supplement is not guaranteed, and the approval process is expensive and may take several years. The FDA also has substantial discretion in the drug approval process. Despite the time and expense exerted, failure can occur at any stage, and we could encounter problems that could cause us to abandon clinical trials or to repeat or perform additional preclinical studies and clinical trials. The number of preclinical studies and clinical trials that will be required for FDA approval varies depending

on the drug candidate, the disease or condition that the drug candidate is designed to address, and the regulations applicable to any particular drug candidate. The FDA can delay, limit or deny approval of a drug candidate for many reasons, including:

- a drug candidate may not be deemed safe or effective;
- the FDA may not find the data from preclinical studies and/or clinical trials sufficient;
- the FDA might not approve our third-party manufacturer's processes or facilities;
- the FDA may change its approval policies or adopt new regulations; and
- third-party products may enter the market and change approval requirements.

Even if we obtain regulatory approvals for our product candidates, the terms of approvals and ongoing regulation of our product candidates may limit how we manufacture and market our product candidates, which could materially affect our ability to generate revenue.

If any of our product candidates are approved, the approved product and its manufacturer will be subject to continual review. Any regulatory approval that we receive for a product candidate is likely to be subject to limitations on the indicated uses for which the end product may be marketed, or include requirements for potentially costly post-approval follow-up clinical trials. In addition, if the FDA and/or non-U.S. regulatory authorities approve any of our product candidates, the labeling, packaging, adverse event reporting, storage, advertising and promotion for the end product will be subject to extensive regulatory requirements. We and the manufacturers of our products, when and if we have any, will also be required to comply with cGMP regulations, which include requirements relating to quality control and quality assurance, as well as the corresponding maintenance of records and documentation. Further, regulatory agencies must approve these manufacturing facilities before they can be used to manufacture our products, when and if we have any, and these facilities are subject to ongoing regulatory inspection. If we fail to comply with the regulatory requirements of the FDA and other non-U.S. regulatory authorities, or if previously unknown problems with our products, when and if we have any, manufacturers or manufacturing processes are discovered, we could be subject to administrative or judicially imposed sanctions, including:

- restrictions on the products, manufacturers or manufacturing process;
- warning letters;
- civil or criminal penalties or fines;
- injunctions;
- product seizures, detentions or import bans;
- voluntary or mandatory product recalls and publicity requirements;
- suspension or withdrawal of regulatory approvals;
- total or partial suspension of production;
- imposition of restrictions on operations, including costly new manufacturing requirements; and
- refusal to approve pending NDAs or supplements to approved NDAs.

In addition, the FDA and non-U.S. regulatory authorities may change their policies and additional regulations may be enacted that could prevent or delay regulatory approval of our product candidates. We cannot predict the likelihood, nature or extent of government regulation that may arise from future legislation or administrative action, either in the United States, Canada or abroad. If we are not able to maintain regulatory compliance, we would likely not be permitted to market our future product candidates and we may not achieve or sustain profitability.

If government and third-party payors fail to provide coverage and adequate reimbursement rates for our product candidates, our revenue and potential for profitability will be reduced.

In the United States and elsewhere, our product revenue will depend principally on the reimbursement rates established by third-party payors, including government health administration authorities, managed-care providers, public health insurers, private health insurers and other organizations. These third-party payors are increasingly challenging the price, and examining the cost-effectiveness, of medical products and services. In addition, significant uncertainty exists as to the reimbursement status, if any, of newly approved drugs, pharmaceutical products or product indications. We may need to conduct post-marketing clinical trials in order to demonstrate the cost-effectiveness of our products, if any. Such clinical trials may require us to commit a significant amount of management time and financial and other resources. If reimbursement of such product is unavailable or limited in scope or amount or if pricing is set at unsatisfactory levels, our revenue could be reduced.

In some countries other than the United States, particularly the countries of the European Union and Canada, the pricing of prescription pharmaceuticals is subject to governmental control. In these countries, obtaining pricing approval from governmental authorities can take six to 12 months or longer after the receipt of regulatory marketing approval of a product for an indication. To obtain reimbursement or pricing approval in some countries, we may be required to conduct a clinical trial that compares the cost-effectiveness of one of our product candidates to other available therapies. If reimbursement of such product candidate is unavailable or limited in scope or amount or if pricing is set at unsatisfactory levels, our revenue could be reduced.

Domestic and foreign governments continue to propose and pass legislation designed to reduce the cost of healthcare, including drugs. In the United States, there have been, and we expect that there will continue to be, federal and state proposals to implement similar governmental control. In addition, increasing emphasis on managed care in the United States will continue to put pressure on the pricing of pharmaceutical products. For example, in March 2010, the Patient Protection and Affordable Care Act, as amended by the Health Care and Education Affordability Reconciliation Act, or collectively, PPACA, became law in the United States. PPACA substantially changes the way healthcare is financed by both governmental and private insurers and significantly affects the pharmaceutical industry.

We anticipate that the PPACA, as well as other healthcare reform measures that may be adopted in the future, may result in more rigorous coverage criteria and downward pressure on the price for any approved product, and could seriously harm our prospects. In addition, the Medicare and Medicaid program and state healthcare laws and regulations may also be modified to change the scope of covered products and/or reimbursement methodology. Cost control initiatives could decrease the established reimbursement rates that we receive for any products in the future, which would limit our revenue and profitability. Legislation and regulations affecting the pricing of pharmaceutical products, including custirsen, or apatorsen may change at any time, which could further limit or eliminate reimbursement rates for custirsen, apatorsen or other product candidates.

Failure to obtain regulatory approval outside of the United States and Canada would prevent us from marketing our product candidates abroad.

We intend to market certain of our existing and future product candidates outside of the United States and Canada. In order to market our existing and future product candidates in the European Union and many other non-North American markets, we must obtain separate regulatory approvals. We have had limited interactions with non-North American regulatory authorities. Approval procedures vary among countries and can involve additional testing, and the time required to obtain approval may differ from that required to obtain FDA approval. Approval by the FDA or other regulatory authorities does not ensure approval by regulatory authorities in other countries, and approval by one or more non-North American regulatory authorities does not ensure approval by regulatory authorities in other countries or by the FDA. The non-North American regulatory approval process may include all of the risks associated with obtaining FDA approval. We may not obtain non-North American regulatory approvals on a timely basis, if at all. We may not be able to file for non-North American regulatory approvals and may not receive necessary approvals to commercialize our existing and future product candidates in any market.

ITEM 1B. UNRESOLVED STAFF COMMENTS

None.

ITEM 2. PROPERTIES

We have business offices located in Bothell, Washington and Vancouver, British Columbia. Prior to the Arrangement, Sonus entered into a non-cancellable lease agreement for laboratory and office space in Bothell, Washington, and moved into this facility on December 14, 2007. The lease covers approximately 42,600 square feet of laboratory and office space in a single facility, with an annual rent of approximately \$2.3 million, and had a 10-year term with two five-year renewal options. On February 11, 2015, we entered into an agreement with the landlord to terminate the lease with an effective termination date of March 1, 2015. The terms of the agreement require us to pay a termination fee of \$2,000,000 no later than the termination date and a contingent termination fee of \$1,250,000 no later than 30 days after the date that the contingent terms of payment are met.

On February 11, 2015, we entered into a lease agreement for office space in Bothell, Washington, which commences on February 15, 2015, and has a three-year term with one three-year renewal option. Pursuant to this lease, we rent approximately 11,526 square feet of office space with an option to rent an additional 8,054 square feet before August 1, 2015. The annual rent is approximately \$0.2 million.

We lease approximately 4,857 square feet in Vancouver, British Columbia, currently at an annual rent of approximately CND \$0.1 million, which lease expires in September 2015.

We believe that the facilities we currently lease are sufficient for our anticipated near-term needs.

ITEM 3. LEGAL PROCEEDINGS

From time to time, we may be involved in litigation relating to claims arising out of our operations in the normal course of business. We are not currently a party to any legal proceedings, the adverse outcome of which, in management's opinion, individually or in the aggregate, would have a material adverse effect on the results of our operations or financial position. There are no material proceedings to which any director, officer or any of our affiliates, any owner of record or beneficially of more than five percent of any class of our voting securities, or any associate of any such director, officer, our affiliates, or security holder, is a party adverse to us or our consolidated subsidiary or has a material interest adverse thereto.

ITEM 4. MINE SAFETY DISCLOSURE

Not applicable.

PART II

ITEM 5. MARKET FOR THE REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES

Our common stock first began trading on the Nasdaq National Market under the symbol "SNUS" on October 12, 1995. Following the completion of the Arrangement discussed elsewhere in this Annual Report on Form 10-K, our common stock commenced trading on the Nasdaq Capital Market under the stock symbol "OGXI", effective August 21, 2008.

No cash dividends have been paid on our common stock, and we do not anticipate paying any cash dividends in the foreseeable future. As of February 15, 2015, there were approximately 95 stockholders of record and there were approximately 8,391 beneficial stockholders of our common stock. The high and low sales prices of our common stock as reported by the NASDAQ Capital Market for the periods indicated are as follows:

<u>OncoGenex Pharmaceuticals, Inc.</u>	<u>HIGH</u>	<u>LOW</u>
YEAR ENDED DECEMBER 31, 2013:		
First quarter	\$ 13.75	\$ 11.30
Second quarter	11.38	9.12
Third quarter	10.24	8.35
Fourth quarter	9.31	6.55
YEAR ENDED DECEMBER 31, 2014:		
First quarter	\$ 14.25	\$ 8.30
Second quarter	12.09	3.26
Third quarter	3.84	2.63
Fourth quarter	2.67	1.98

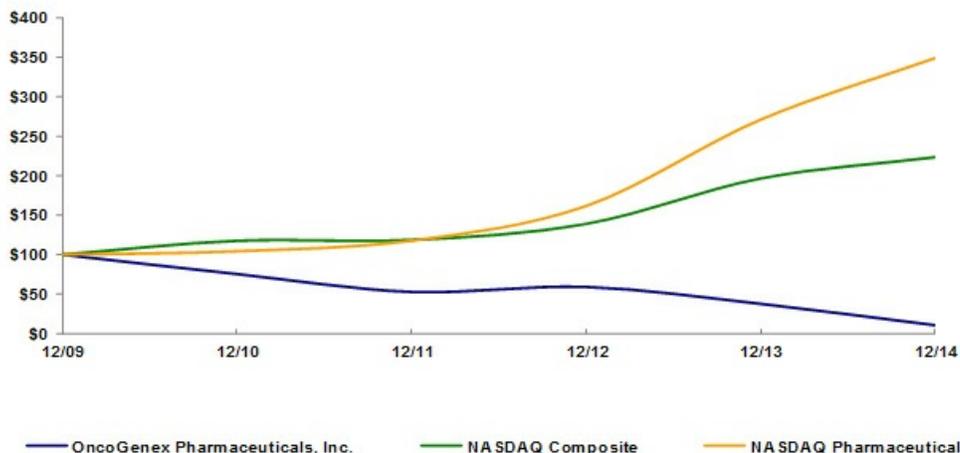
The information required by this item regarding equity compensation plan information is set forth in Part III, Item 12 of this Annual Report on Form 10-K. No purchases of equity securities during the year ended December 31, 2014 were made by us or on our behalf and we did not sell any unregistered securities during such year.

Stock Performance Graph

The following performance graph shall not be deemed “filed” for purposes of Section 18 of the Exchange Act, or incorporated by reference into any of our filings under the Securities Act or the Exchange Act, except as expressly set forth by specific reference in such filings. The graph compares the cumulative five-year total return provided to stockholders on our common stock relative to the cumulative total returns of the NASDAQ Composite Index and the NASDAQ Pharmaceutical Index. An investment of \$100 (with reinvestment of all dividends into additional shares of the same class of equity securities at the frequency with which dividends are paid on such securities during the applicable year) is assumed to have been made in our common stock and in each of the indexes on December 31, 2009 and its relative performance is tracked through December 31, 2014.

The stock price performance included in this graph is not necessarily indicative of future stock price performance.

COMPARISON OF 5 YEAR CUMULATIVE TOTAL RETURN*
 Among OncoGenex Pharmaceuticals, Inc., the NASDAQ Composite Index,
 and the NASDAQ Pharmaceutical Index



*\$100 invested on 12/31/09 in stock or index, including reinvestment of dividends. Fiscal year ending December 31.

	12/31/09	12/31/10	12/31/11	12/31/12	12/31/13	12/31/14
OncoGenex Pharmaceuticals, Inc.	100.00	75.36	52.69	58.89	37.43	10.28
NASDAQ Composite	100.00	117.61	118.70	139.00	196.83	223.74
NASDAQ Pharmaceutical	100.00	104.24	117.69	161.80	271.53	349.75

ITEM 6. SELECTED CONSOLIDATED FINANCIAL DATA

The data set forth below should be read in conjunction with Item 7, “Management’s Discussion and Analysis of Financial Condition and Results of Operations” and the Consolidated Financial Statements and Notes thereto appearing at Item 8 of this Annual Report on Form 10-K. The selected consolidated statements of loss data for the years ended December 31, 2014, 2013 and 2012 and consolidated balance sheet data as of December 31, 2014 and 2013 set forth below have been derived from our audited consolidated financial statements included elsewhere in this Annual Report on Form 10-K. The selected statements of loss data for the year ended December 31, 2011 and 2010 and the balance sheet data as of December 31, 2012, 2011 and 2010 set forth below have been derived from the audited consolidated financial statements for such years not included in this Annual Report on Form 10-K.

The historical results presented are not necessarily indicative of future results.

	December 31,				
	2014	2013	2012	2011	2010
	(in thousands except share and per share amounts)				
Statements of Loss Data:					
Collaboration revenue	\$ 27,116	\$ 29,882	\$ 20,095	\$ 5,496	\$ 13,616
Total expenses	\$ 53,332	\$ 65,209	\$ 46,082	\$ 27,783	\$ 28,361
Net loss	\$ (26,240)	\$ (31,849)	\$ (21,098)	\$ (14,673)	\$ (12,584)
Basic and diluted loss per common share	\$ (1.45)	\$ (2.17)	\$ (1.56)	\$ (1.51)	\$ (1.79)
Shares used in calculation of net loss per share					
Basic and diluted	18,098,799	14,683,389	13,522,723	9,729,340	7,030,903

	December 31,				
	2014	2013	2012	2011	2010
	(in thousands)				
Balance Sheet Data:					
Cash, cash equivalents and short-term investments	\$ 47,057	\$ 39,222	\$ 75,383	\$ 64,927	\$ 85,107
Total assets	\$ 56,291	\$ 55,689	\$ 82,016	\$ 68,015	\$ 89,918
Current liabilities	\$ 22,218	\$ 14,934	\$ 11,556	\$ 30,786	\$ 27,476
Total liabilities	\$ 22,232	\$ 18,478	\$ 15,809	\$ 37,125	\$ 45,793
Additional paid-in capital	\$ 191,373	\$ 168,242	\$ 165,395	\$ 108,986	\$ 107,579
Accumulated deficit	\$ (159,958)	\$ (133,689)	\$ (101,840)	\$ (80,742)	\$ (66,069)
Stockholders' equity	\$ 34,059	\$ 37,211	\$ 66,207	\$ 30,890	\$ 44,125

ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

Forward-Looking Statements

This Annual Report on Form 10-K contains "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995. These forward-looking statements involve a number of risks and uncertainties. We caution readers that any forward-looking statement is not a guarantee of future performance and that actual results could differ materially from those contained in the forward-looking statement. These statements are based on current expectations of future events. Such statements include, but are not limited to, statements about future financial and operating results, plans, objectives, expectations and intentions, costs and expenses, interest rates, outcome of contingencies, financial condition, results of operations, liquidity, business strategies, cost savings, objectives of management and other statements that are not historical facts. You can find many of these statements by looking for words like "believes," "expects," "anticipates," "estimates," "may," "should," "will," "could," "plan," "intend," or similar expressions in this Annual Report on Form 10-K or in documents incorporated by reference into this Annual Report on Form 10-K. We intend that such forward-looking statements be subject to the safe harbors created thereby. Examples of these forward-looking statements include, but are not limited to:

- progress and preliminary and future results of clinical trial;
- anticipated regulatory filings, requirements and future clinical trials;
- timing and amount of future contractual payments, product revenue and operating expenses;
- market acceptance of our products and the estimated potential size of these markets; and
- our anticipated future capital requirements and the terms of any capital financing agreements.

These forward-looking statements are based on the current beliefs and expectations of our management and are subject to significant risks and uncertainties. If underlying assumptions prove inaccurate or unknown risks or uncertainties materialize, actual results may differ materially from current expectations and projections. Factors that might cause such a difference include those discussed in Item 1A "Risk Factors," as well as those discussed elsewhere in the Annual Report on Form 10-K.

You are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date of this Annual Report on Form 10-K or, in the case of documents referred to or incorporated by reference, the date of those documents.

All subsequent written or oral forward-looking statements attributable to us or any person acting on our behalf are expressly qualified in their entirety by the cautionary statements contained or referred to in this section. We do not undertake any obligation to release publicly any revisions to these forward-looking statements to reflect events or circumstances after the date of this Annual Report on Form 10-K or to reflect the occurrence of unanticipated events, except as may be required under applicable U.S. securities law. If we do update one or more forward-looking statements, no inference should be drawn that we will make additional updates with respect to those or other forward-looking statements.

Overview

We are an emerging leader in next generation cancer therapeutics. Our mission is to accelerate transformative therapies to improve the lives of people living with cancer and other serious diseases. We have developed a pipeline of late-stage product candidates that are designed to block the production of specific proteins that promote treatment resistance in cancer. OncoGenex' first-in-class, innovative therapies have the potential to redefine treatment outcomes in a variety of cancers. We have three product candidates in our pipeline: custirsen, apatersen and OGX-225, each of which has a distinct mechanism of action and represents a unique opportunity for cancer drug development. Of the product candidates in our pipeline, custirsen and apatersen are clinical-stage assets being evaluated in two phase 3 studies and five phase 2 studies.

Our product candidates custirsen, apatersen and OGX-225 focus on mechanisms of treatment resistance in cancer patients and are designed to block the production of specific proteins that we believe promote treatment resistance and survival of tumor cells and are over-produced in response to a variety of cancer treatments. Our aim in targeting these particular proteins is to disable the tumor cell's adaptive defenses, thereby rendering the tumor cells more susceptible to attack with a variety of cancer therapies. We believe this approach will increase survival time and improve the quality of life for cancer patients.

Product Candidate Custirsen

Three phase 3 custirsen clinical trials have been initiated:

- The SYNERGY Trial: The phase 3 clinical trial evaluated a survival benefit for custirsen in combination with first-line docetaxel treatment in patients with metastatic castrate resistant prostate cancer, or metastatic CRPC. Results of the SYNERGY trial were presented at the European Society for Medical Oncology (ESMO) 2014 Congress in September 2014. Final survival results indicated that the addition of custirsen to standard first-line docetaxel/prednisone therapy did not meet the primary endpoint of a statistically significant improvement in overall survival, or OS, in men with metastatic CRPC, compared to docetaxel/prednisone alone (median survival 23.4 months vs. 22.2 months, respectively; hazard ratio 0.93 and one-sided p value 0.207. Subsequent exploratory analyses showed improved overall survival for those men who had poor prognostic scores across several risk factors and received custirsen. Based on these findings and upon completion of the agreement with Teva to terminate our collaboration agreement, we may prospectively evaluate patients with poor prognostic factors within the ongoing phase 3 AFFINITY trial in metastatic CRPC and the phase 3 trial in non-small cell lung cancer, or NSCLC. The adverse events observed were similar to custirsen's known adverse event profile.
- The AFFINITY Trial: The phase 3 clinical trial to evaluate a survival benefit for custirsen in combination with cabazitaxel treatment as second-line chemotherapy in patients with CRPC. We initiated this phase 3 clinical trial in August 2012 and completed enrollment of approximately 630 patients in September 2014. The trial is designed to show a survival benefit with 85% power based on a hazard ratio of 0.75. A single interim futility analysis was completed in January 2015; the trial is continuing based on the recommendation of the Independent Data Monitoring Committee.
- The ENSPIRIT Trial: The phase 3 clinical trial to evaluate a survival benefit for custirsen in combination with docetaxel treatment as second-line chemotherapy in patients with NSCLC. The original design was to enroll 1,100 patients in order to show a survival benefit with 90% power based on a hazard ratio of 0.80. This trial was initiated in September 2012. Two formal interim futility analyses are planned, which would result in early termination of the trial if there is inadequate evidence of clinical benefit or futility. The first interim futility analysis was completed in August 2014; the trial is continuing based on the recommendation of the Independent Data Monitoring Committee. The second interim futility analysis is based on OS futility only. The trial will not be stopped early in order to claim efficacy. Upon completion of the agreement with Teva to terminate our collaboration agreement, we intend to modify the study design and the statistical analysis plan for the ENSPIRIT trial to allow for a smaller trial size and to include a more rigorous second interim futility analysis that will occur earlier. The goal of this amendment is to provide a better assessment of more clinically relevant survival benefit when adding custirsen to second-line docetaxel or whether to terminate the trial early for survival futility. The second interim futility analysis is planned by mid-2015, subject to these modifications.

Custirsen has received Fast Track designation from the U.S. Food and Drug Administration, or FDA, for second-line treatment of metastatic CRPC when combined with cabazitaxel and prednisone and for the second-line treatment of advanced NSCLC when combined with docetaxel in patients with disease progression following treatment with a first-line, platinum-based chemotherapy doublet regimen.

We and collaborating investigators have conducted one phase 3 clinical trial and five phase 2 clinical trials to evaluate the ability of custirsen to enhance the effects of therapy in prostate, non-small cell lung and breast cancers. Results have been presented for each of these trials. Data from these trials demonstrate the potential benefit of adding custirsen, a second generation antisense molecule, to existing cancer therapies. Refer to the discussions in Part I, Item 1 under the headings “Our Product Candidates—Custirsen— Current Custirsen Development Activities” and “Our Product Candidates—Custirsen—Summary of Results of Custirsen Clinical Trials” for further details.

Product Candidate Apatorsen

Apatorsen is our product candidate designed to inhibit production of Hsp27, a cell-survival protein expressed in many types of cancers including bladder, non-small cell lung, pancreatic, prostate and breast cancers. Hsp27 expression is stress-induced, including by many anti-cancer therapies. Overexpression of Hsp27 is thought to be an important factor leading to the development of treatment resistance and is associated with metastasis and negative clinical outcomes in patients with various tumor types.

Hsp27 can also function as an immunomodulatory protein by a number of mechanism that include altering important membrane expressed proteins on monocytes and immature dendritic cells; this alteration results in tumor-associated immune cells that are not functional in identifying and killing cancer cells. The induction of anti-inflammatory cytokines by Hsp27 may also play a role in down-regulating lymphocyte activation leading to additional unresponsive immune cells.

In 2013, we initiated the ORCA program which encompasses clinical studies designed to evaluate whether inhibition of Hsp27 can lead to improved prognosis and treatment outcomes for cancer patients. Our goal is to advance cancer treatment by conducting clinical trials for apatorsen across multiple cancer indications including bladder, lung, pancreatic and prostate cancers. We are conducting parallel clinical trials to evaluate apatorsen in several cancer indications and treatment combinations to accelerate the development of apatorsen. As part of this strategy, we are supporting specific investigator-sponsored trials to allow assessment of a broader range of clinical indications for future OncoGenex-sponsored trials and possible market approval.

Our completed company-sponsored Borealis-1TM phase 2 trial was a three-arm, randomized, placebo-controlled trial evaluating apatorsen in combination with a first-line standard of care chemotherapy (gemcitabine and cisplatin) in the metastatic setting. Recent trial results indicated that the addition of 600mg apatorsen to gemcitabine and cisplatin showed a 14 % reduction in risk of death and a 17% reduction in progressive disease and death when compared to chemotherapy alone. Subsequent exploratory analyses showed improved overall survival for those patients who received apatorsen and had poor prognosis over various prognostic factors such as performance status.



Our current apatorsen development activities for bladder cancer include the following clinical trial:

- The Borealis-2TM Trial: An investigator-sponsored, randomized phase 2 trial evaluating apatorsen in combination with docetaxel treatment compared to docetaxel treatment alone in patients with advanced or metastatic bladder cancer who have disease progression following first-line platinum-based chemotherapy. Patients may also continue weekly apatorsen infusions as maintenance treatment until disease progression or unacceptable toxicity if they complete all 10 cycles of docetaxel, or are discontinued from docetaxel due to docetaxel toxicity. This trial is designed to have adequate power to detect a survival benefit corresponding to a hazard ratio of approximately 0.667. The primary analysis is to be performed at one-sided 0.10 significance level with 90% power to detect a difference in overall survival. We expect to enroll approximately 200 patients. This trial was initiated in April 2013 and is enrolling patients.

Our current apatorsen development activities for NSCLC include the following clinical trials:

- The SpruceTM Trial: An investigator-sponsored, randomized, placebo-controlled phase 2 trial evaluating apatorsen plus carboplatin and pemetrexed therapy or placebo plus carboplatin and pemetrexed therapy in patients with previously untreated advanced non-squamous NSCLC. Patients also continue weekly apatorsen or placebo infusions as maintenance treatment until disease progression if they complete a minimum of 3 cycles of chemotherapy treatment. The trial is expected to randomize approximately 155 patients. The aim of the trial is to determine if adding apatorsen to carboplatin and pemetrexed therapy can extend PFS outcome. Additional analyses are expected to include tumor response rates, overall survival, safety, tolerability and the effect of therapy on Hsp27 levels. This trial was initiated in August 2013 and patient enrollment was completed in February 2015.

The Cedar™ Trial: An investigator-sponsored, randomized phase 2 trial evaluating apatersen plus gemcitabine and carboplatin therapy or gemcitabine and carboplatin therapy alone in patients with previously untreated advanced squamous NSCLC. Patients also continue weekly apatersen infusions as maintenance treatment after chemotherapy until disease progression. The trial is expected to randomize approximately 140 patients. The aim of the trial is to determine if adding apatersen to gemcitabine and carboplatin therapy can extend PFS outcome. Additional analyses will include tumor response rates, overall survival, safety, and health-related quality of life. Additional analyses are expected to determine the effect of therapy on Hsp27 levels and to explore potential biomarkers that may help predict response to treatment. The trial was initiated in July 2014.

Our current apatersen development activities for pancreatic cancer include the following clinical trial:

The Rainier™ Trial: An investigator-sponsored, randomized, placebo-controlled phase 2 trial evaluating apatersen in combination with Abraxane® (paclitaxel protein-bound particles for injectable suspension)(albumin-bound) and gemcitabine in approximately 130 patients with previously untreated metastatic pancreatic cancer. The objective of the trial will be overall survival, with additional analyses to evaluate PFS, tumor response rates, safety, tolerability, and the effect of therapy on Hsp27 levels. The trial was initiated in August 2013 and patient enrollment was completed in December 2014.

Our current apatersen development activities for prostate cancer include the following clinical trial:

The Pacific™ Trial: An investigator-sponsored, randomized phase 2 trial evaluating apatersen in men with CRPC who are experiencing a rising PSA while receiving Zytiga® (abiraterone acetate). The aim of the trial is to determine if adding apatersen to Zytiga treatment can reverse or delay treatment resistance by evaluating the PFS rate at a milestone Day 60 assessment. Other secondary endpoints such as PSA and objective responses, time to disease progression, CTCs and Hsp27 levels are expected to be evaluated. We expect approximately 80 patients will be enrolled. The trial was initiated in December 2012 and is enrolling patients.

The primary endpoints of these phase 2 trials are survival or PFS outcomes in order to direct future company-sponsored trials in defining patient populations and indications that show promising trends in survival or PFS benefits. Statistically significant differences in these trials due to the small sample sizes is unlikely. However, these trials are designed such that if the primary endpoints reach statistical significance, we believe they could be used as a supportive studies for registration.

Refer to the discussion in Part I, Item 1 under the heading “Our Product Candidates—Apatersen—Summary of Results of Apatersen Clinical Trials” for further details.

Product Candidates OGX-225

OGX-225 is our product candidate designed to inhibit the production of Insulin Growth Factor Binding Proteins -2 and -5 (IGFBP-2, IGFBP-5), two proteins that when overexpressed affect the growth of cancer cells. Increased IGFBP-2 and IGFBP-5 production are observed in many human cancers, including prostate, breast, colorectal, non-small cell lung, glioblastoma, acute myeloid leukemia, acute lymphoblastic leukemia, neuroblastoma, and melanoma. The increased production of these proteins is linked to faster rates of cancer progression, treatment resistance, and shorter survival duration in humans.

Preclinical studies with human prostate and breast cancer cells have shown that reducing IGFBP-2 and IGFBP-5 production with OGX-225 sensitized these tumor types to hormone ablation therapy or chemotherapy and induced tumor cell death. We have begun development activities for OGX-225 and have completed IND enabling toxicology studies.

Collaboration Revenue

Revenue recognized to date is attributable to the upfront payment we received in the fourth quarter of 2009 pursuant to a collaboration agreement with Teva, as well as cash reimbursements from Teva for certain costs incurred by us under the clinical development plan. Our policy is to account for these reimbursements as collaboration revenue.

In December 2014, we and Teva entered into an agreement pursuant to which we agreed to negotiate the termination of our collaboration agreement. If the collaboration agreement is terminated, we do not expect to receive any future amounts from Teva beyond the amounts paid in connection with such termination.

Research and Development Expenses

Research and development, or R&D, expenses consist primarily of costs for clinical trials, contract manufacturing, personnel costs, milestone payments to third parties, facilities, regulatory activities, preclinical studies and allocations of other R&D-related costs. External expenses for clinical trials include fees paid to clinical research organizations, clinical trial site costs and patient treatment costs.

Currently, we manage our clinical trials through contract research organizations and independent medical investigators at their sites and at hospitals and expect this practice to continue. Through our clinical development programs, we are developing each of our product candidates in parallel for multiple disease indications. Due to the number of ongoing projects and our ability to utilize resources across several projects, we do not record or maintain information regarding the indirect operating costs incurred for our research and development programs on a program-specific basis. In addition, we believe that allocating costs on the basis of time incurred by our employees does not accurately reflect the actual costs of a project.

Several of our clinical trials have been supported by grant funding that was received directly by the hospitals and/or clinical investigators conducting the clinical trials as investigator-sponsored trials, thereby allowing us to complete these clinical trials at a lower cost to us.

Under the collaboration agreement with Teva, we had spent the required \$30 million in development costs related to custirsen. Teva is required to fund all additional expenses under our clinical development plan. If the collaboration agreement is terminated, we expect to take responsibility for all future development costs.

Since our drug candidates are in the early stages of development, we cannot estimate completion dates for development activities or when we might receive material net cash inflows from our R&D projects, if ever.

Our projects or intended R&D activities may be subject to change from time to time as we evaluate our R&D priorities and available resources.

General and Administrative Expenses

General and administrative, or G&A, expenses consist primarily of salaries and related costs for our personnel in executive, finance and accounting, corporate external communications, human resources and other administrative functions, as well as consulting costs, including market research, business consulting and intellectual property. Other costs include professional fees for legal and auditing services, insurance and facility costs.

Warrant liability

The following is a summary of outstanding warrants to purchase common stock that are classified as liabilities at December 31, 2014:

	Total Outstanding and Exercisable	Exercise price per Share	Expiration Date
(1) Warrants issued in October 2010 financing	1,587,301	\$ 20.00	October 2015
(2) Series A Warrants issued in July 2014 financing	2,779,933	4.00	July 2019
(3) Series B Warrants issued in July 2014 financing	670,269	4.00	July 2019

No warrants were exercised during the twelve months ended December 31, 2014 or 2013.

We reassess the fair value of the common stock warrants classified as liabilities at each reporting date utilizing a Black-Scholes pricing model. Inputs used in the pricing model include estimates of stock price volatility, expected warrant life and risk-free interest rate. The computation of expected volatility was based on the historical volatility of shares of our common stock for a period that coincides with the expected life of the warrant.

Results of Operations

Years Ended December 31, 2014, 2013 and 2012

Revenue

Revenue for the year ended December 31, 2014 decreased to \$27.1 million, from \$29.9 million for the year ended December 31, 2013 and increased from \$20.1 million for the year ended December 31, 2012. Revenue in all years was earned through our strategic collaboration with Teva. The decrease in 2014 as compared with 2013 was due primarily to higher revenue earned from reimbursable purchases of combination drugs used in the AFFINITY trial during 2013. The increase in 2013 as compared to 2012 was due to an increase in revenue earned through our strategic collaboration with Teva as a result of the clinical development activities associated with the AFFINITY trial. If the collaboration agreement is terminated, we do not expect to receive any future amounts from Teva beyond the amounts paid in connection with such termination.

Research and Development Expenses

R&D expenses for the year ended December 31, 2014 decreased to \$46.2 million, from \$55.3 million for the year ended December 31, 2013 and increased from \$39.9 million for the year ended December 31, 2012. The decrease in 2014 as compared to 2013 was due primarily to lower clinical trial costs for Borealis-1 as a result of patients coming off treatment and fewer combination drug purchases for the AFFINITY trial in 2014. The increase in 2013 as compared to 2012 was due primarily to higher clinical study expenses associated with the AFFINITY trial, and increased employee expenses, including stock-based compensation expense. These increases were partially offset by lower clinical trial costs for Borealis-1 as a result of patients coming off treatment.

Our research and development expenses for our clinical development programs were as follows (in thousands):

	Year ended December 31,		
	2014	2013	2012
Clinical development programs:			
Custirsen	\$ 26,015	\$ 28,199	\$ 18,163
Apatorsen	\$ 9,753	\$ 16,260	\$ 12,971
Other research and development	\$ 10,456	\$ 10,858	\$ 8,814
Total research and development expenses	\$ 46,224	\$ 55,317	\$ 39,948

General and Administrative Expenses

G&A expenses for the years ended December 31, 2014, 2013 and 2012 were \$10.6 million, \$9.9 million and \$7.8 million, respectively. The increase in 2014 compared to 2013 was primarily due to higher consulting fees. The increase in 2013 as compared to 2012 was predominantly due to higher infrastructure costs and consulting fees.

Restructuring Gain

Restructuring gain for the years ended December 31, 2014, 2013 and 2012 was \$0.3 million, zero and \$1.7 million, respectively. We entered into a lease termination agreement with BMR-217TH Place LLC, or BMR, in February 2015 in relation to the Bothell facility. The termination of the lease resulted in a \$3.5 million restructuring gain recorded in the fourth quarter of 2014, this was partially offset by \$3.2 million in termination fee recognized in the same period. In December 2012, we decided to expand our occupancy of the Bothell facility and revised our assumptions used to estimate the value of the excess lease facility liability. This change in estimate resulted in a decrease in the value of our excess lease liability and a \$1.7 million restructuring gain recorded in the fourth quarter of 2012 to reflect this change in estimate.

Revaluation of Warrants

We recorded gains of \$3.7 million, \$3.2 million and \$4.5 million on the revaluation of our outstanding warrants for the years ended December 31, 2014, 2013 and 2012, respectively, which is included on our consolidated statement of loss as a gain on warrants. We revalue the warrants at each balance sheet date to fair value.

Liquidity and Capital Resources

We have incurred an accumulated deficit of \$160.0 million through December 31, 2014, and we expect to incur substantial additional losses in the future as we expand our R&D activities and other operations, as more fully described below. We have not generated any revenue from product sales to date, and we may not generate product sales revenue in the near future, if ever.

Our operations to date have been primarily funded through the sale of our equity securities and payments received from Teva. As of December 31, 2014, our cash, cash equivalents, and short-term investments increased to \$47.1 million from \$39.2 million as of December 31, 2013, primarily as a result of proceeds received from the underwritten registered direct offering completed in July 2014 and from the sale of common stock through our “at the market” equity offering program.

On June 2013, we entered into a Sales Agreement with MLV & Co. LLC, pursuant to which we may sell shares of our common stock through an “at the market” equity offering program. During the year ended December 31, 2014, we sold an aggregate of 809,214 shares of common stock for net proceeds of \$2.9 million.

In July 2014, we completed an underwritten registered direct offering of 5,559,866 Series A units at a price per unit of \$3.48 and 1,340,538 Series B units at a price per unit of \$3.47. Each Series A unit consisted of one share of common stock, par value \$0.001 per share, and a Series A warrant to purchase up to one-half of one share of common stock at an initial exercise price of \$4.00 per share. Each Series B unit consisted of a Pre-Funded Series B warrant to purchase up to one share of common stock at an initial exercise price of \$0.01 per share and a Series B warrant to purchase up to one-half of one share of common stock at an initial exercise price of \$4.00 per share. We received net proceeds of approximately \$22.4 million, after deducting the underwriting discount and offering expenses.

Upon completion of the agreement with Teva to terminate our collaboration agreement, on the terms previously disclosed, we expect that we would receive a payment of approximately \$27.0 million, subject to certain adjustments. We believe that the payment from Teva, together with our current cash and cash equivalents, would be sufficient to complete the milestones listed above as well as a modified second futility analysis of the ENSPIRIT trial. Additional capital will be required to fund completion of ENSPIRIT beyond the second futility analysis

Based on our current expectations, we believe our capital resources will be sufficient to fund our currently planned operations into the third quarter of 2016. Our currently planned operations are set forth below under the heading “Operating Capital and Capital Expenditure Requirements.”

Cash Flows

Operating Activities

For the year ended December 31, 2014, 2013 and 2012 cash used in operating activities was \$17.3 million, \$35.9 million and \$43.5 million, respectively. The decrease in cash used in operations in 2014 as compared to 2013 and 2012 is primarily attributable to an increase in cash reimbursements from Teva in 2014 as a result of us fulfilling our obligation of funding \$30 million towards the development of custirsen, and the timing of payments for our clinical development activities.

Financing Activities

For the year ended December 31, 2014, 2013 and 2012 net cash provided by financing activities was \$25.2 million, \$10,000 and \$54.2 million, respectively. Net cash provided by financing activities for the year ended December 31, 2014 was the result of proceeds from the underwritten registered direct offering completed in July 2014, the sale of shares of common stock through our “at the market” equity offering program and the exercise of stock options. Net cash provided by financing activities in for the year ended December 31, 2013 was the result of proceeds from the exercise of stock options. Net cash provided by financing activities in the year ended December 31, 2012 was primarily attributable to the net proceeds we received from the public offering of our common stock in March 2012.

Investing Activities

Net cash provided by investing activities for the year ended December 31, 2014 and 2013 was \$5.4 million and \$32.4 million, respectively. Net cash used in investing activities in the year ended December 31, 2012 was \$21.2 million Net cash used in and provided by investing activities in all years was due to transactions involving marketable securities in the normal course of business.

Operating Capital and Capital Expenditure Requirements

Based on our current expectations we believe that our cash, cash equivalents and short-term investments will be sufficient to fund our currently planned operations into the third quarter of 2016, which may include:

- announcing AFFINITY trial results, a phase 3 trial that is evaluating a survival benefit for custirsen in combination with cabazitaxel as second-line chemotherapy in approximately 630 patients with CRPC with final results expected late 2015 or early 2016, depending on timing of the event-driven final analysis;
- completing enrollment in the Borealis-2 trial, an investigator-sponsored, randomized, controlled phase 2 trial evaluating apatorsen in patients with advanced or metastatic bladder cancer who have disease progression following initial platinum-based chemotherapy first-line treatment and are eligible to receive docetaxel second-line chemotherapy;
- announcing Spruce trial results, an investigator-sponsored, randomized, placebo-controlled phase 2 trial evaluating apatorsen treatment with carboplatin and pemetrexed chemotherapy in patients with previously untreated advanced non-squamous NSCLC;
- continued enrollment in the Cedar trial, an investigator-sponsored, randomized phase 2 trial evaluating apatorsen treatment with gemcitabine and carboplatin chemotherapy in patients with previously untreated advanced squamous NSCLC;
- announcing Rainier trial results, an investigator-sponsored, randomized, placebo-controlled phase 2 trial evaluating apatorsen in combination with Abraxane® and gemcitabine in patients with previously untreated metastatic pancreatic cancer; and
- continuing enrollment in the Pacific trial, an investigator-sponsored randomized phase 2 trial evaluating apatorsen treatment in combination with Zytiga in patients with prostate cancer, with preliminary results expected in 2015.

Upon completion of the agreement with Teva to terminate our collaboration agreement, on the terms previously disclosed, we expect that we would receive a payment of approximately \$27.0 million, subject to certain adjustments. We believe that the payment from Teva, together with our current cash and cash equivalents, would be sufficient to complete the milestones listed above as well as a modified second futility analysis of the ENSPIRIT trial. Additional capital will be required to fund completion of ENSPIRIT beyond the second futility analysis

Results from the additional custirsen and apatorsen trials may be released at a date that is beyond the period for which we currently project we have available cash resources. We have based this estimate on assumptions that may prove to be wrong, and we could utilize our available capital resources sooner than we currently expect. If we were to continue ENSPIRIT beyond the second futility analysis, conduct development activities with respect to our other product candidates beyond those development activities described above, including activities with respect to OGX-225, if the clinical trials cost more than we anticipate, or if custirsen is successful in a phase 3 trial with no partnership, we would require additional funding to support such operations. If we need to extend our cash availability or to conduct any such currently unplanned development activities, we would seek such necessary funding through the licensing or sale of certain of our product candidates, by executing a partnership or collaboration agreement, or through private or public offerings of our equity or debt, including the sale of common stock pursuant to an at-the market offering. However, we can provide no assurance that such funding would be available to us on favorable terms, or at all.

Our future capital requirements will depend on many factors, including:

- our ongoing level of focus and efforts to develop custirsen and apatorsen;
- our ability to obtain additional funding through a partnership or collaboration agreement with a third party or licenses of certain of our product candidates, or through private or public offerings of our equity or debt, or through sale of certain of our royalty rights;
- timing, costs and results of clinical trials, preclinical development and regulatory approvals;
- success of custirsen, apatorsen and our other product candidates;
- timing, costs and results of drug discovery and R&D; and
- costs related to obtaining, defending and enforcing patents.

Contractual Obligations

The following table summarizes our contractual obligations as of December 31, 2014 (in thousands):

	Total	1 year	2-3 years	4-5 years
Bothell office operating lease (1)	\$ 386	\$ 386	\$ —	\$ —
Bothell office operating lease (2)	683	144	459	80
Vancouver office operating lease (3)	73	73	—	—
UBC license maintenance fees (4)	35	7	14	14
Leased equipment	22	10	12	—
Total	<u>\$ 1,199</u>	<u>\$ 620</u>	<u>\$ 485</u>	<u>\$ 94</u>

- (1) This operating lease was terminated effective March 1, 2015.
- (2) This lease is effective March 1, 2015.
- (3) This operating lease expires in 2015.
- (4) We are obligated to pay an annual license maintenance fee of CAD\$8,000 to UBC, which has been converted to US dollars based on the December 31, 2014 exchange rate of US\$1.00 = CAD\$1.1601, and rounded to the nearest \$1,000.

Off-Balance Sheet Arrangements

We do not have any off-balance sheet financing arrangements at December 31, 2014.

Inflation

We do not believe that inflation has had a material effect on our business and results of operations during the periods presented.

Material Changes in Financial Condition

(in thousands)	December 31,	
	2014	2013
Total Assets	\$ 56,291	\$ 55,689
Total Liabilities	22,232	18,478
Total Equity	34,059	37,211

The increase in assets at December 31, 2014 compared with December 31, 2013 was primarily due to increased cash, cash equivalents and marketable securities resulting from the underwritten registered direct offering completed in July 2014 and the sale of shares of common stock through our “at the market” equity offering program. The increase in liabilities at December 31, 2014 compared with December 31, 2013 is primarily due to higher clinical trial accruals associated with patient enrollment and treatment in the AFFINITY trial and our investigator sponsored trials evaluating apatosen.

Critical Accounting Policies and Estimates

Use of Estimates

The preparation of consolidated financial statements in conformity with United States generally accepted accounting principles requires management to make estimates and assumptions that affect the amounts reported in the consolidated financial statements and notes thereto. Actual results could differ from these estimates. Estimates and assumptions principally relate to estimates of the fair value of our warrant liability and excess lease facility liability, the initial fair value and forfeiture rates of stock options issued to employees and consultants, the estimated compensation cost on performance restricted stock unit awards and clinical trial and manufacturing accruals.

Cash Equivalents

We consider all highly liquid investments with an original maturity of three months or less to be cash equivalents, which we consider as available for sale and carry at fair value, with unrealized gains and losses, if any, reported as accumulated other comprehensive income or loss, which is a separate component of stockholders' equity.

Short-Term Investments

Short-term investments consist of financial instruments purchased with an original maturity of greater than three months and less than one year. We consider our short-term investments as available-for-sale and carry them at fair value, with unrealized gains and losses

except other than temporary losses, if any, reported as accumulated other comprehensive income or loss, which is a separate component of stockholders' equity. Realized gains and losses on the sale of these securities are recognized in net income or loss. The cost of investments sold is based on the specific identification method.

Fair value of financial instruments

The fair value of our cash equivalents and marketable securities is based on quoted market prices and trade data for comparable securities. We determine the fair value of our warrant liability based on the Black-Scholes pricing model and using considerable judgment, including estimating stock price volatility and expected warrant life. Other financial instruments including amounts receivable, accounts payable, accrued liabilities other, accrued clinical liabilities, accrued compensation and lease termination liability are carried at cost, which we believe approximates fair value because of the short-term maturities of these instruments.

Intellectual Property

The costs of acquiring intellectual property rights to be used in the research and development process, including licensing fees and milestone payments, are charged to research and development expense as incurred in situations where we have not identified an alternative future use for the acquired rights, and are capitalized in situations where we have identified an alternative future use. No costs associated with acquiring intellectual property rights have been capitalized to date. Costs of maintaining intellectual property rights are expensed as incurred.

Revenue Recognition

Revenue recognized to date is attributable to the upfront payment we received in the fourth quarter of 2009 pursuant to the collaboration agreement with Teva, as well as cash reimbursements from Teva for costs incurred by us under the clinical development plan. In December 2014, we and Teva entered into an agreement pursuant to which we agreed to negotiate the termination of our collaboration agreement. If the collaboration agreement is terminated, we do not expect to receive any future amounts from Teva beyond the amounts paid in connection with such termination.

Under the collaboration agreement, we and Teva shared certain custirsen-related development costs. We have spent the required \$30 million in direct and indirect development costs, such as full-time equivalent (FTE) reimbursement for time incurred by our personnel for the benefit of the custirsen development plan. Teva is funding all other expenses under the collaboration agreement including the three phase 3 clinical trials under the clinical development plan. If the collaboration agreement is terminated, we expect to take responsibility for all future development costs. On a quarterly basis Teva reimbursed all development expenses incurred in accordance with our clinical development plan. Our policy is to account for these reimbursements as Collaboration Revenue. For a summary description of the collaboration agreement with Teva see also Note 4.

The collaboration agreement contained multiple elements and deliverables, and required evaluation pursuant to ASC 605-25, *Multiple-Element Arrangements*, or ASC 605-25. We evaluated the facts and circumstances of the collaboration agreement to determine whether we had obligations constituting deliverables under ASC 605-25. We concluded that we had multiple deliverables under the collaboration agreement, including deliverables relating to the grant of a technology license, and performance of manufacturing, regulatory and clinical development services in the U.S. and Canada, and estimated that the period in which it would perform those deliverables began in the fourth quarter of 2009 and was completed in the fourth quarter of 2012. Because we have been able to establish vendor specific objective evidence, or VSOE, of the fair value of the maintenance, regulatory, and clinical services, we concluded that these deliverables should be accounted as separate units of accounting under ASC 605-25. In establishing VSOE for the manufacturing, regulatory, and clinical development services, management relied on rates charged by other service providers providing similar development services.

As of December 31, 2012 we had recognized the entire \$30 million allocated to the manufacturing, regulatory and clinical development services element as revenue on a proportional performance basis.

Because we were not able to reliably estimate the fair value of the technology license, we used the residual value approach to determine the amount of revenue to recognize. Based on this approach, we recognized \$22 million in 2009 relating to this element.

Under the collaboration agreement, we are entitled to receive up to \$370 million upon the achievement of developmental and commercial milestones. We evaluated the nature of the events triggering these contingent payments and concluded that these events constituted substantive milestones. This conclusion was based primarily on the facts that each triggering event represents a specific outcome that can be achieved only through successful performance by us of one or more of our deliverables, and that achievement of each triggering event was subject to inherent risk and uncertainty and would result in additional payments becoming due to it. We concluded that each of these milestones was substantive, based primarily on the facts that the payments they trigger are non-refundable, that achievement of the milestone entails risk and was not reasonably assured at inception of the collaboration agreement, that substantial effort is required to complete each milestone, that the amount of each milestone payment is reasonable in relation to

the value created in achieving the milestone, that a substantial amount of time is expected to pass between the upfront payment and the potential milestone payments, and that the milestone payments, once received, relate solely to past performance. Based on the foregoing, we will recognize any revenue from these milestone payments under the substantive milestone method in the period in which the underlying triggering event occurs.

Under the collaboration agreement, we are also entitled to receive percentage royalties on sales of custirsen ranging from the mid-teens to the mid-twenties. We will recognize any revenue from these events based on the revenue recognition criteria set forth in ASC 605, Revenue Recognition. Based on those criteria, we consider these potential payments to be contingent revenue, and will recognize them as revenue in the period in which the applicable contingency is resolved.

Barter Transactions

During 2012, we entered into a barter transaction, exchanging laboratory capital assets with a zero net book value for barter credits on future apatorsen preclinical research services. Such credits were estimated to be redeemed over the one year period that the preclinical research services were expected to be rendered by the vendor.

The credits were recorded at the fair value of the laboratory capital assets exchanged, in accordance with ASC 845, "Nonmonetary Transactions" resulting in other income of \$0.2 million which was recorded in the Company's Consolidated Statement of Loss in the year ended December 31, 2012.

Property and Equipment

Property and equipment assets are recorded at cost less accumulated depreciation. Depreciation expense on assets acquired under capital lease is recorded within depreciation expense. Depreciation is recorded on a straight-line basis over the following periods:

Computer equipment	3 years
Furniture and fixtures	5 years
Leasehold improvements and equipment under capital lease	Over the term of the lease

Income Taxes

Income taxes are accounted for under the liability method. Deferred tax assets and liabilities are recognized for the differences between the carrying values of assets and liabilities and their respective income tax bases and for operating losses and tax credit carry forwards. A valuation allowance is provided for the portion of deferred tax assets that is more likely than not to be unrealized. Deferred tax assets and liabilities are measured using the enacted tax rates and laws.

Scientific Research and Development Tax Credits

The benefits of tax credits for scientific research and development expenditures are recognized in the year the qualifying expenditure is made provided there is reasonable assurance of recoverability. The tax credits recorded are based on our estimates of amounts expected to be recovered and are subject to audit by taxation authorities. The non-refundable tax credit reduces the tax provision; however, no reduction to the tax provision has been recorded to date as we record a full valuation allowance. All qualifying expenditures are eligible for non-refundable tax credits only.

Research and Development Costs

Research and development costs are expensed as incurred, net of related refundable investment tax credits, with the exception of non-refundable advanced payments for goods or services to be used in future research and development, which are capitalized in accordance with ASC 730, "Research and Development" and included within Prepaid Expenses or Other Assets depending on when the assets will be utilized.

Clinical trial expenses are a component of research and development costs. These expenses include fees paid to contract research organizations and investigators and other service providers, which conduct certain product development activities on our behalf. We use an accrual basis of accounting, based upon estimates of the amount of service completed. In the event payments differ from the amount of service completed, prepaid expense or accrued liabilities amounts are adjusted on the balance sheet. These expenses are based on estimates of the work performed under service agreements, milestones achieved, patient enrollment and experience with similar contracts. We monitor each of these factors to the extent possible and adjusts estimates accordingly.

Stock-Based Compensation

Effective January 1, 2006, we adopted the fair value recognition provisions of the ASC 718, "Stock Compensation", using the modified prospective method with respect to options granted to employees and directors. Under this transition method, compensation cost is recognized in the financial statements beginning with the effective date for all share-based payments granted after January 1, 2006 and for all awards granted prior to but not yet vested as of January 1, 2006. The expense is amortized on a straight-line basis over the graded vesting period.

Restricted Stock Unit Awards

We grant restricted stock unit awards that generally vest and are expensed over a four-year period. We also granted restricted stock unit awards that vest in conjunction with certain performance conditions to certain executive officers and key employees. At each reporting date, we evaluate whether achievement of the performance conditions is probable. Compensation expense is recorded over the appropriate service period based upon our assessment of accomplishing each performance provision or the occurrence of other events that may have caused the awards to accelerate and vest.

Segment Information

We follow the requirements of ASC 280, "Segment Reporting." We have one operating segment, dedicated to the development and commercialization of new cancer therapies, with operations located in Canada and the United States.

Comprehensive Income (Loss)

Comprehensive income (loss) is comprised of net income (loss) and other comprehensive income (loss). Other comprehensive income (loss) consists of unrealized gains and losses on our available-for-sale marketable securities. We report the components of comprehensive loss in the statement of stockholders' equity.

Loss per Common Share

Basic loss per common share is computed using the weighted average number of common shares outstanding during the period. Diluted loss per common share is computed in accordance with the treasury stock method. The effect of potentially issuable common shares from outstanding stock options, restricted stock unit awards and warrants are anti-dilutive for all periods presented.

Warrants

We account for warrants pursuant to the authoritative guidance on accounting for derivative financial instruments indexed to, and potentially settled in, a company's own stock, on the understanding that in compliance with applicable securities laws, the warrants require the issuance of registered securities upon exercise and therefore do not sufficiently preclude an implied right to net cash settlement. We classify warrants on the consolidated balance sheet as a liability which is revalued at each balance sheet date subsequent to the initial issuance. Determining the appropriate fair-value model and calculating the fair value of registered warrants requires considerable judgment, including estimating stock price volatility and expected warrant life. The computation of expected volatility was based on the historical volatility of shares of our common stock for a period that coincides with the expected life of the warrants. A small change in the estimates used may have a relatively large change in the estimated valuation. We use the Black-Scholes pricing model to value the warrants. Changes in the fair value of the warrants are reflected in the consolidated statement of loss as gain (loss) on revaluation of warrants.

Reclassifications

Certain comparative figures have been reclassified to conform with the financial presentation adopted for the current year. Accrued liabilities other and accrued clinical liabilities were reclassified and shown separately on the face of the consolidated balance sheet rather than combined together as accrued liabilities, as in the prior year.

Foreign Currency Translation

Our functional and reporting currency is the U.S. dollar. Revenues and expenses denominated in other than U.S. dollars are translated at average monthly rates.

The functional currency of our foreign subsidiary is the U.S. dollar. For this foreign operation, assets and liabilities denominated in other than U.S. dollars are translated at the period-end rates for monetary assets and liabilities and historical rates for non-monetary assets and liabilities. Revenues and expenses denominated in other than U.S. dollars are translated at average monthly rates. Gains and losses from this translation are recognized in the consolidated statement of loss.

Pending Adoption of Recent Accounting Pronouncements

In August 2014, the Financial Accounting Standards Board, or FASB issued Accounting Standards Updated, or ASU No. 2014-15, Presentation of Financial Statements-Going Concern (Subtopic 2015-40) ("ASU 2014-15"). ASU 2014-15 provides guidance to U.S. GAAP about management's responsibility to evaluate whether there is a substantial doubt about an entity's ability to continue as a going concern and to provide related footnote disclosures. This new rule requires management to assess an entity's ability to continue as a going concern by incorporating and expanding upon certain principles currently in the U.S. auditing standards. Specifically, ASU 2014-15 (1) defines the term substantial doubt, (2) requires and evaluation of every reporting period including interim periods, (3) provides principles for considering the mitigating effect of management's plans, (5) requires an express statement and other disclosures when substantial doubt is not alleviated, and (6) requires an assessment for a period of one year after the date that the financial statements are issued (or available to be issued). This guidance is effective for annual periods ending after December 15, 2016. We are currently in the process of evaluating the impact of adoption of ASU No. 2014-15 and do not expect any significant impact on our consolidated financial statements and related disclosures.

In May 2014, the FASB, issued ASU No. 2014-09, Revenue from Contracts with Customers (Topic 606): Revenue from Contracts with Customers, which guidance in this update will supersede the revenue recognition requirements in Topic 605, Revenue Recognition, and most industry-specific guidance when it becomes effective. ASU No. 2014-09 affects any entity that enters into contracts with customers to transfer goods or services or enters into contracts for the transfer of nonfinancial assets unless those contracts are within the scope of other standards. The core principal of ASU No. 2014-09 is that a company will recognize revenue when it transfers promised goods or services to customers in an amount that reflects the consideration to which the company expects to be entitled in exchange for those goods or services. In doing so, companies will need to use more judgment and make more estimates than under current guidance. These may include identifying performance obligations in the contract, estimating the amount of variable consideration to include in the transaction price and allocating the transaction price to each separate performance obligation. ASU No. 2014-09 is effective for annual reporting periods beginning after December 15, 2016, including interim periods within that reporting period, which will be our fiscal year 2017 (or December 31, 2017), and entities can transition to the standard either retrospectively or as a cumulative-effect adjustment as of the date of adoption. Early adoption is prohibited. We are currently in the process of evaluating the impact of adoption of ASU No. 2014-09 on our consolidated financial statements and related disclosures.

Recently Adopted Accounting Policies

In July 2013, the FASB issued ASU No. 2013-11, Income Taxes (Topic 740): Presentation of an Unrecognized Tax Benefit When a Net Operating Loss Carryforward, a Similar Tax Loss, or a Tax Credit Carryforward Exists (a consensus of the FASB Emerging Issues Task Force) (ASU 2013-11), which provides clarification on the financial statement presentation of unrecognized tax benefits. ASU 2013-11 specifies that an unrecognized tax benefit (or a portion thereof) shall be presented in the financial statements as a reduction to a deferred tax asset when a net operating loss carryforward, a similar tax loss, or a tax credit carryforward exists. If such deferred tax asset is not available at the reporting date to settle additional income taxes resulting from the disallowance of a tax position, or the entity does not plan to use the deferred tax asset for such purpose given the option, the unrecognized tax benefit shall be presented in the financial statements as a liability and shall not be combined with deferred tax assets. The amendments in ASU 2013-11 are effective for fiscal years (and interim periods within those years) beginning after December 15, 2013, with early adoption permitted. The adoption of this standard did not have a significant impact on our financial position or results of operations.

In February 2013, the FASB issued Accounting Standards Updates, or ASU, No. 2013-02, "Other Comprehensive Income." This ASU requires an entity to provide information about the amounts reclassified out of accumulated other comprehensive income by component. In addition, an entity is required to present, either on the face of the statement where net income is presented or in the notes, significant amounts reclassified out of accumulated other comprehensive income by the respective line items of net income but only if the amount reclassified is required under generally accepted accounting principles in the United States, or U.S. GAAP, to be reclassified to net income in its entirety in the same reporting period. For other amounts that are not required under U.S. GAAP to be reclassified in their entirety to net income, an entity is required to cross-reference to other disclosures required under U.S. GAAP that provide additional detail about those amounts. The adoption of this standard did not have a significant impact on our financial position or results of operations.

ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Interest Rate Risk

Interest rate risk is the risk that the fair values and future cash flows of financial instruments will fluctuate because of the changes in market interest rates. We invest our cash in a variety of financial instruments, primarily in short-term bank deposits, money market funds, and domestic and foreign commercial paper and government securities. These investments are denominated in U.S. dollars, and we monitor our exposure to interest rate changes is monitored. We have very limited interest rate risk due to the few assets or liabilities subject to fluctuations in interest rates. Our investment portfolio includes only marketable securities with active secondary or resale markets to help ensure portfolio liquidity. Due to the nature of our highly liquid marketable securities, a change in interest rates

would not materially change the fair market value. We have estimated the effect on our portfolio of a hypothetical increase in interest rates by one percent to be a reduction of \$0.3 million in the fair value of our investments as of December 31, 2014.

Foreign Currency Exchange Risk

We are exposed to risks associated with foreign currency transactions on certain contracts and payroll expenses related to our Canadian subsidiary, OncoGenex Technologies, denominated in Canadian dollars and we have not hedged these amounts. As our unhedged foreign currency transactions fluctuate, our earnings might be negatively affected. Accordingly, changes in the value of the U.S. dollar relative to the Canadian dollar might have an adverse effect on our reported results of operations and financial condition, and fluctuations in exchange rates might harm our reported results and accounts from period to period. We have estimated the effect on our reported results of operations of a hypothetical increase of 10 percent in the exchange rate of the Canadian dollar against the U.S. dollar to be \$0.3 million for the year ended December 31, 2014.

ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Board of Directors and Shareholders of

OncoGenex Pharmaceuticals, Inc.

We have audited the accompanying consolidated balance sheets of **OncoGenex Pharmaceuticals, Inc.** (the “Company”) as of December 31, 2014 and 2013, and the related consolidated statements of loss and comprehensive loss, stockholders’ equity and cash flows for each of the three years in the period ended December 31, 2014. These financial statements are the responsibility of the Company’s management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the consolidated financial position of **OncoGenex Pharmaceuticals, Inc.** at December 31, 2014 and 2013, and the consolidated results of its operations and its cash flows for each of the three years in the period ended December 31, 2014, in conformity with U.S. generally accepted accounting principles.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States), **OncoGenex Pharmaceuticals, Inc.’s** internal control over financial reporting as of December 31, 2014, based on criteria established in Internal Control-Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 Framework) and our report dated March 26, 2015 expressed an unqualified opinion thereon.

Vancouver, Canada
March 26, 2015

/s/ ERNST & YOUNG LLP
Chartered Accountants

To the Board of Directors and Shareholders of

OncoGenex Pharmaceuticals, Inc.

We have audited **OncoGenex Pharmaceuticals, Inc.**'s (the "Company") internal control over financial reporting as of December 31, 2014, based on criteria established in Internal Control—Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 Framework) (the COSO criteria). **OncoGenex Pharmaceuticals, Inc.**'s management is responsible for maintaining effective internal control over financial reporting, and for its assessment of the effectiveness of internal control over financial reporting included in the accompanying "Management's Report on Internal Control over Financial Reporting". Our responsibility is to express an opinion on the Company's internal control over financial reporting based on our audit.

We conducted our audit in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

In our opinion, **OncoGenex Pharmaceuticals, Inc.** maintained, in all material respects, effective internal control over financial reporting as of December 31, 2014, based on the COSO criteria.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States), the consolidated balance sheets of **OncoGenex Pharmaceuticals, Inc.** as of December 31, 2014 and 2013, and the related consolidated statements of loss and comprehensive loss, stockholders' equity and cash flows for each of the three years in the period ended December 31, 2014 and our report dated March 26, 2015 expressed an unqualified opinion thereon.

Vancouver, Canada
March 26, 2015

/s/ ERNST & YOUNG LLP
Chartered Accountants

OncoGenex Pharmaceuticals, Inc.

Consolidated Balance Sheets

(In thousands, except per share and share amounts)

	December 31,	
	2014	2013
ASSETS		
Current assets:		
Cash and cash equivalents <i>[note 5]</i>	\$ 27,897	\$ 14,593
Restricted cash <i>[note 5]</i>	251	—
Short-term investments <i>[note 5]</i>	19,160	24,629
Interest receivable	113	218
Amounts receivable	5,676	8,657
Prepaid expenses	2,165	5,770
Other current assets <i>[note 8]</i>	499	—
Total current assets	<u>55,761</u>	<u>53,867</u>
Restricted cash <i>[note 5]</i>	—	314
Property and equipment, net <i>[note 6]</i>	257	397
Other assets <i>[note 8]</i>	273	1,111
Total assets	<u>\$ 56,291</u>	<u>\$ 55,689</u>
LIABILITIES AND STOCKHOLDERS' EQUITY		
Current liabilities:		
Accounts payable	\$ 72	\$ 139
Accrued liabilities other	863	500
Accrued clinical liabilities	13,462	11,284
Accrued compensation	1,333	1,705
Current portion of long-term obligations <i>[note 7 and note 15]</i>	236	1,092
Lease termination liability <i>[note 15]</i>	3,250	—
Warrant liability <i>[note 5 and note 11]</i>	3,002	214
Total current liabilities	<u>22,218</u>	<u>14,934</u>
Long-term obligations, less current portion <i>[note 7 and note 15]</i>	14	3,544
Total liabilities	<u>22,232</u>	<u>18,478</u>
Commitments and contingencies <i>[note 13 and note 15]</i>		
Stockholders' equity:		
Common stock, \$0.001 par value, 50,000,000 shares authorized, 22,630,652 and 14,707,886 issued at December 31, 2014 and December 31, 2013, respectively, and 22,621,426 and 14,707,886 outstanding at December 31, 2014 and December 31, 2013, respectively	22	15
Additional paid-in capital	191,373	168,242
Accumulated deficit	(159,958)	(133,689)
Accumulated other comprehensive income	2,622	2,643
Total stockholders' equity	<u>34,059</u>	<u>37,211</u>
Total liabilities and stockholders' equity	<u>\$ 56,291</u>	<u>\$ 55,689</u>
Subsequent events <i>[note 15]</i>		

See accompanying notes.

OncoGenex Pharmaceuticals, Inc.
Consolidated Statements of Loss and Comprehensive Loss

(In thousands, except per share and share amounts)

	2014	Year Ended December 31, 2013	2012
COLLABORATION REVENUE (note 4)	\$ 27,116	\$ 29,882	\$ 20,095
EXPENSES			
Research and development	46,224	55,317	39,948
General and administrative	10,625	9,892	7,791
Restructuring gain [note 7 and note 15]	(267)	—	(1,657)
Total operating expenses	<u>56,582</u>	<u>65,209</u>	<u>46,082</u>
OTHER INCOME (EXPENSE)			
Interest income	35	150	292
Other	(19)	120	138
Warrant issuance costs	(531)	—	—
Gain on warrants	<u>3,741</u>	<u>3,208</u>	<u>4,459</u>
Total other income	<u>3,226</u>	<u>3,478</u>	<u>4,889</u>
Net loss	<u>\$ (26,240)</u>	<u>\$ (31,849)</u>	<u>\$ (21,098)</u>
OTHER COMPREHENSIVE INCOME			
Net unrealized gain (loss) on securities	(21)	6	1
Total other comprehensive income (loss)	(21)	6	1
Comprehensive loss	<u>\$ (26,261)</u>	<u>\$ (31,843)</u>	<u>\$ (21,097)</u>
Basic and diluted net loss per common share [note 11 [h]]	<u>\$ (1.45)</u>	<u>\$ (2.17)</u>	<u>\$ (1.56)</u>
Shares used in computation of basic and diluted net loss per common share [note 11 [h]]	<u>18,098,799</u>	<u>14,683,389</u>	<u>13,522,723</u>

See accompanying notes.

OncoGenex Pharmaceuticals, Inc.
Consolidated Statements of Stockholders' Equity

(In thousands, except share amounts)

	Common Stock		Additional Paid-in Capital	Accumulated Other Comprehensive Income (Loss)	Accumulated Deficit	Total Stockholders' Equity
	Shares	Amount				
Balance, January 1, 2012	9,749,819	\$ 10	\$ 108,986	\$ 2,636	\$ (80,742)	\$ 30,890
Stock-based compensation expense	—	—	2,175	—	—	2,175
Shares issued in March 2012 financing	4,789,750	5	53,772	—	—	53,777
Stock option exercises	117,347	—	462	—	—	462
Net loss	—	—	—	—	(21,098)	(21,098)
Other comprehensive income	—	—	—	1	—	1
Balance, December 31, 2012	<u>14,656,916</u>	<u>15</u>	<u>165,395</u>	<u>2,637</u>	<u>(101,840)</u>	<u>66,207</u>
Stock-based compensation expense	—	—	2,837	—	—	2,837
Stock option exercises	3,475	—	10	—	—	10
Restricted Stock Unit Settlements	47,495	—	—	—	—	—
Net loss	—	—	—	—	(31,849)	(31,849)
Other comprehensive income	—	—	—	6	—	6
Balance, December 31, 2013	<u>14,707,886</u>	<u>15</u>	<u>168,242</u>	<u>2,643</u>	<u>(133,689)</u>	<u>37,211</u>
Stock-based compensation expense	—	—	3,860	—	—	3,860
Stock option exercises	10,000	—	30	—	—	30
Restricted Stock Unit Settlements	53,971	—	—	—	—	—
Performance Restricted Stock Unit Settlements	149,177	—	—	—	—	—
Performance Restricted Stock Unit Settlements withheld and retired to treasury	(9,226)	—	—	—	(29)	(29)
Shares issued - ATM Financing	809,214	—	2,860	—	—	2,860
Shares issued in July 2014 Financing	5,559,866	6	16,369	—	—	16,375
Warrant Exercises	1,340,538	1	12	—	—	13
Net loss	—	—	—	—	(26,240)	(26,240)
Other comprehensive loss	—	—	—	(21)	—	(21)
Balance, December 31, 2014	<u>22,621,426</u>	<u>\$ 22</u>	<u>\$ 191,373</u>	<u>\$ 2,622</u>	<u>\$ (159,958)</u>	<u>\$ 34,059</u>

See accompanying notes.

OncoGenex Pharmaceuticals, Inc.
Consolidated Statements of Cash Flows

(In thousands)

	2014	Year Ended December 31, 2013	2012
Operating Activities:			
Net loss	\$ (26,240)	\$ (31,849)	\$ (21,098)
Adjustments to reconcile net loss to net cash used in operating activities:			
Gain on warrants	(3,741)	(3,208)	(4,459)
Warrant issuance costs	531	—	—
Depreciation	223	227	100
Stock-based compensation [note 11[c]]	3,860	2,834	2,175
Restructuring gain [note 7 and note 15]	(3,517)	—	(1,657)
Gain on non-monetary transaction [note 9]	—	—	(151)
Changes in operating assets and liabilities:			
Interest receivable	105	109	36
Amounts receivable	2,981	(7,943)	(265)
Prepaid expenses and other assets	3,944	(1,974)	(3,037)
Accounts payable	(67)	(1,190)	(175)
Accrued liabilities other	363	41	269
Accrued clinical liabilities	2,178	7,563	3,150
Accrued compensation	(372)	164	589
Restricted cash	63	—	63
Excess lease liability [note 7 and note 15]	(785)	(680)	(795)
Lease obligation [note 7 and note 15]	(84)	(21)	33
Lease termination fees [note 15]	3,250	—	—
Deferred collaboration revenue	—	—	(18,271)
Net cash used in operating activities	(17,308)	(35,927)	(43,493)
Financing Activities:			
Proceeds from the exercise of stock options	30	10	462
Proceeds from ATM Financing, net of issuance costs	2,874	—	—
Taxes paid related to net share settlement of equity awards	(29)	—	—
Issuance of common shares, net of share issuance costs	22,372	—	53,777
Net cash provided by financing activities	25,247	10	54,239
Investing Activities:			
Purchase of investments	(19,446)	(31,696)	(110,443)
Proceeds from sale of investments	—	1,000	7,365
Proceeds from maturities of investments	24,894	63,375	82,181
Purchase of property and equipment	(82)	(253)	(291)
Net cash provided by (used in) investing activities	5,366	32,426	(21,188)
Effect of exchange rate changes on cash	(1)	9	—
Net increase (decrease) in cash and cash equivalents	13,304	(3,482)	(10,442)
Cash and cash equivalents at beginning of year	14,593	18,075	28,517
Cash and cash equivalents at end of year	<u>\$ 27,897</u>	<u>\$ 14,593</u>	<u>\$ 18,075</u>
Supplemental Disclosure of Cash Flow Information:			
Property and equipment acquired under lease obligation	\$ —	\$ 24	\$ —

See accompanying notes.

OncoGenex Pharmaceuticals, Inc.
Notes to Consolidated Financial Statements
(In thousands, except per share and share amounts)

1. NATURE OF BUSINESS AND BASIS OF PRESENTATION

OncoGenex Pharmaceuticals, Inc. (referred to as “OncoGenex,” “we,” “us,” or “our”) is committed to the development and commercialization of new therapies that address treatment resistance in cancer patients. We were incorporated in the state of Delaware and are headquartered in Bothell, Washington and have a subsidiary in Vancouver, British Columbia.

Basis of Presentation

The accompanying consolidated financial statements have been prepared in accordance with accounting principles generally accepted in the United States. The consolidated financial statements include the accounts of OncoGenex Pharmaceuticals, Inc. and its wholly owned subsidiary OncoGenex Technologies, Inc.

Liquidity

We have historically experienced recurring losses from operations that have generated an accumulated deficit of \$160.0 million through December 31, 2014. At December 31, 2014, we had cash, cash equivalents and short-term investments of \$47.1 million.

2. ACCOUNTING POLICIES

Significant Accounting Policies

Use of Estimates

The preparation of consolidated financial statements in conformity with United States generally accepted accounting principles requires management to make estimates and assumptions that affect the amounts reported in the consolidated financial statements and notes thereto. Actual results could differ from these estimates. Estimates and assumptions principally relate to estimates of the fair value of our warrant liability and excess lease facility liability, the initial fair value and forfeiture rates of stock options issued to employees and consultants, the estimated compensation cost on performance restricted stock unit awards and clinical trial and manufacturing accruals.

Cash Equivalents

We consider all highly liquid investments with an original maturity of three months or less to be cash equivalents, which we consider as available for sale and carry at fair value, with unrealized gains and losses, if any, reported as accumulated other comprehensive income or loss, which is a separate component of stockholders’ equity.

Short-Term Investments

Short-term investments consist of financial instruments purchased with an original maturity of greater than three months and less than one year. We consider our short-term investments as available-for-sale and carry them at fair value, with unrealized gains and losses except other than temporary losses, if any, reported as accumulated other comprehensive income or loss, which is a separate component of stockholders’ equity. Realized gains and losses on the sale of these securities are recognized in net income or loss. The cost of investments sold is based on the specific identification method.

Fair value of financial instruments

The fair value of our cash equivalents and marketable securities is based on quoted market prices and trade data for comparable securities. We determine the fair value of our warrant liability based on the Black-Scholes pricing model and using considerable judgment, including estimating stock price volatility and expected warrant life. Other financial instruments including amounts receivable, accounts payable, accrued liabilities other, accrued clinical liabilities, accrued compensation and lease termination liability are carried at cost, which we believe approximates fair value because of the short-term maturities of these instruments.

Intellectual Property

The costs of acquiring intellectual property rights to be used in the research and development process, including licensing fees and milestone payments, are charged to research and development expense as incurred in situations where we have not identified an

alternative future use for the acquired rights, and are capitalized in situations where we have identified an alternative future use. No costs associated with acquiring intellectual property rights have been capitalized to date. Costs of maintaining intellectual property rights are expensed as incurred.

Revenue Recognition

Revenue recognized to date is attributable to the upfront payment we received in the fourth quarter of 2009 pursuant to the collaboration agreement with Teva, as well as cash reimbursements from Teva for costs incurred by us under the clinical development plan. In December 2014, we and Teva entered into an agreement pursuant to which we agreed to negotiate the termination of our collaboration agreement. If the collaboration agreement is terminated, we do not expect to receive any future amounts from Teva beyond the amounts paid in connection with such termination.

Under the collaboration agreement, we and Teva shared certain custirsen-related development costs. We have spent the required \$30 million in direct and indirect development costs, such as full-time equivalent (FTE) reimbursement for time incurred by our personnel for the benefit of the custirsen development plan. Teva is funding all other expenses under the collaboration agreement including the three phase 3 clinical trials under the clinical development plan. If the collaboration agreement is terminated, we expect to take responsibility for all future development costs. On a quarterly basis Teva reimbursed all development expenses incurred in accordance with our clinical development plan. Our policy is to account for these reimbursements as Collaboration Revenue. For a summary description of the collaboration agreement with Teva see also Note 4.

The collaboration agreement contained multiple elements and deliverables, and required evaluation pursuant to ASC 605-25, *Multiple-Element Arrangements*, or ASC 605-25. We evaluated the facts and circumstances of the collaboration agreement to determine whether we had obligations constituting deliverables under ASC 605-25. We concluded that we had multiple deliverables under the collaboration agreement, including deliverables relating to the grant of a technology license, and performance of manufacturing, regulatory and clinical development services in the U.S. and Canada, and estimated that the period in which it would perform those deliverables began in the fourth quarter of 2009 and was completed in the fourth quarter of 2012. Because we have been able to establish vendor specific objective evidence, or VSOE, of the fair value of the maintenance, regulatory, and clinical services, we concluded that these deliverables should be accounted as separate units of accounting under ASC 605-25. In establishing VSOE for the manufacturing, regulatory, and clinical development services, management relied on rates charged by other service providers providing similar development services.

As of December 31, 2012 we had recognized the entire \$30 million allocated to the manufacturing, regulatory and clinical development services element as revenue on a proportional performance basis.

Because we were not able to reliably estimate the fair value of the technology license, we used the residual value approach to determine the amount of revenue to recognize. Based on this approach, we recognized \$22 million in 2009 relating to this element.

Under the collaboration agreement, we are entitled to receive up to \$370 million upon the achievement of developmental and commercial milestones. We evaluated the nature of the events triggering these contingent payments and concluded that these events constituted substantive milestones. This conclusion was based primarily on the facts that each triggering event represents a specific outcome that can be achieved only through successful performance by us of one or more of our deliverables, and that achievement of each triggering event was subject to inherent risk and uncertainty and would result in additional payments becoming due to it. We concluded that each of these milestones was substantive, based primarily on the facts that the payments they trigger are non-refundable, that achievement of the milestone entails risk and was not reasonably assured at inception of the collaboration agreement, that substantial effort is required to complete each milestone, that the amount of each milestone payment is reasonable in relation to the value created in achieving the milestone, that a substantial amount of time is expected to pass between the upfront payment and the potential milestone payments, and that the milestone payments, once received, relate solely to past performance. Based on the foregoing, we will recognize any revenue from these milestone payments under the substantive milestone method in the period in which the underlying triggering event occurs.

Under the collaboration agreement, we are also entitled to receive percentage royalties on sales of custirsen ranging from the mid-teens to the mid-twenties. We will recognize any revenue from these events based on the revenue recognition criteria set forth in ASC 605, Revenue Recognition. Based on those criteria, we consider these potential payments to be contingent revenue, and will recognize them as revenue in the period in which the applicable contingency is resolved.

Barter Transactions

During 2012, we entered into a barter transaction, exchanging laboratory capital assets with a zero net book value for barter credits on future apatosen preclinical research services. Such credits were estimated to be redeemed over the one year period that the preclinical research services were expected to be rendered by the vendor.

The credits were recorded at the fair value of the laboratory capital assets exchanged, in accordance with ASC 845, "Nonmonetary Transactions" resulting in other income of \$0.2 million which was recorded in the Company's Consolidated Statement of Loss in the year ended December 31, 2012.

Property and Equipment

Property and equipment assets are recorded at cost less accumulated depreciation. Depreciation expense on assets acquired under capital lease is recorded within depreciation expense. Depreciation is recorded on a straight-line basis over the following periods:

Computer equipment	3 years
Furniture and fixtures	5 years
Leasehold improvements and equipment under capital lease	Over the term of the lease

Income Taxes

Income taxes are accounted for under the liability method. Deferred tax assets and liabilities are recognized for the differences between the carrying values of assets and liabilities and their respective income tax bases and for operating losses and tax credit carry forwards. A valuation allowance is provided for the portion of deferred tax assets that is more likely than not to be unrealized. Deferred tax assets and liabilities are measured using the enacted tax rates and laws.

Scientific Research and Development Tax Credits

The benefits of tax credits for scientific research and development expenditures are recognized in the year the qualifying expenditure is made provided there is reasonable assurance of recoverability. The tax credits recorded are based on our estimates of amounts expected to be recovered and are subject to audit by taxation authorities. The non-refundable tax credit reduces the tax provision; however, no reduction to the tax provision has been recorded to date as we record a full valuation allowance. All qualifying expenditures are eligible for non-refundable tax credits only.

Research and Development Costs

Research and development costs are expensed as incurred, net of related refundable investment tax credits, with the exception of non-refundable advanced payments for goods or services to be used in future research and development, which are capitalized in accordance with ASC 730, "Research and Development" and included within Prepaid Expenses or Other Assets depending on when the assets will be utilized.

Clinical trial expenses are a component of research and development costs. These expenses include fees paid to contract research organizations and investigators and other service providers, which conduct certain product development activities on our behalf. We use an accrual basis of accounting, based upon estimates of the amount of service completed. In the event payments differ from the amount of service completed, prepaid expense or accrued liabilities amounts are adjusted on the balance sheet. These expenses are based on estimates of the work performed under service agreements, milestones achieved, patient enrollment and experience with similar contracts. We monitor each of these factors to the extent possible and adjusts estimates accordingly.

Stock-Based Compensation

Effective January 1, 2006, we adopted the fair value recognition provisions of the ASC 718, "Stock Compensation", using the modified prospective method with respect to options granted to employees and directors. Under this transition method, compensation cost is recognized in the financial statements beginning with the effective date for all share-based payments granted after January 1, 2006 and for all awards granted prior to but not yet vested as of January 1, 2006. The expense is amortized on a straight-line basis over the graded vesting period.

Restricted Stock Unit Awards

We grant restricted stock unit awards that generally vest and are expensed over a four-year period. We also granted restricted stock unit awards that vest in conjunction with certain performance conditions to certain executive officers and key employees. At each reporting date, we evaluate whether achievement of the performance conditions is probable. Compensation expense is recorded over the appropriate service period based upon our assessment of accomplishing each performance provision or the occurrence of other events that may have caused the awards to accelerate and vest.

Segment Information

We follow the requirements of ASC 280, "Segment Reporting." We have one operating segment, dedicated to the development and commercialization of new cancer therapies, with operations located in Canada and the United States.

Comprehensive Income (Loss)

Comprehensive income (loss) is comprised of net income (loss) and other comprehensive income (loss). Other comprehensive income (loss) consists of unrealized gains and losses on our available-for-sale marketable securities. We report the components of comprehensive loss in the statement of stockholders' equity.

Loss per Common Share

Basic loss per common share is computed using the weighted average number of common shares outstanding during the period. Diluted loss per common share is computed in accordance with the treasury stock method. The effect of potentially issuable common shares from outstanding stock options, restricted stock unit awards and warrants are anti-dilutive for all periods presented.

Warrants

We account for warrants pursuant to the authoritative guidance on accounting for derivative financial instruments indexed to, and potentially settled in, a company's own stock, on the understanding that in compliance with applicable securities laws, the warrants require the issuance of registered securities upon exercise and therefore do not sufficiently preclude an implied right to net cash settlement. We classify warrants on the consolidated balance sheet as a liability which is revalued at each balance sheet date subsequent to the initial issuance. Determining the appropriate fair-value model and calculating the fair value of registered warrants requires considerable judgment, including estimating stock price volatility and expected warrant life. The computation of expected volatility was based on the historical volatility of shares of our common stock for a period that coincides with the expected life of the warrants. A small change in the estimates used may have a relatively large change in the estimated valuation. We use the Black-Scholes pricing model to value the warrants. Changes in the fair value of the warrants are reflected in the consolidated statement of loss as gain (loss) on revaluation of warrants.

Reclassifications

Certain comparative figures have been reclassified to conform with the financial presentation adopted for the current year. Accrued liabilities other and accrued clinical liabilities were reclassified and shown separately on the face of the consolidated balance sheet rather than combined together as accrued liabilities, as in the prior year.

Foreign Currency Translation

Our functional and reporting currency is the U.S. dollar. Revenues and expenses denominated in other than U.S. dollars are translated at average monthly rates.

The functional currency of our foreign subsidiary is the U.S. dollar. For this foreign operation, assets and liabilities denominated in other than U.S. dollars are translated at the period-end rates for monetary assets and liabilities and historical rates for non-monetary assets and liabilities. Revenues and expenses denominated in other than U.S. dollars are translated at average monthly rates. Gains and losses from this translation are recognized in the consolidated statement of loss.

Pending Adoption of Recent Accounting Pronouncements

In August 2014, the Financial Accounting Standards Board, or FASB issued Accounting Standards Updated, or ASU No. 2014-15, Presentation of Financial Statements-Going Concern (Subtopic 2015-40) ("ASU 2014-15"). ASU 2014-15 provides guidance to U.S. GAAP about management's responsibility to evaluate whether there is a substantial doubt about an entity's ability to continue as a going concern and to provide related footnote disclosures. This new rule requires management to assess an entity's ability to continue as a going concern by incorporating and expanding upon certain principles currently in the U.S. auditing standards. Specifically, ASU 2014-15 (1) defines the term substantial doubt, (2) requires and evaluation of every reporting period including interim periods, (3) provides principles for considering the mitigating effect of management's plans, (5) requires an express statement and other disclosures when substantial doubt is not alleviated, and (6) requires an assessment for a period of one year after the date that the financial statements are issued (or available to be issued). This guidance is effective for annual periods ending after December 15,

2016. We are currently in the process of evaluating the impact of adoption of ASU No. 2014-15 and do not expect any significant impact on our consolidated financial statements and related disclosures.

In May 2014, the FASB, issued ASU No. 2014-09, Revenue from Contracts with Customers (Topic 606): Revenue from Contracts with Customers, which guidance in this update will supersede the revenue recognition requirements in Topic 605, Revenue Recognition, and most industry-specific guidance when it becomes effective. ASU No. 2014-09 affects any entity that enters into contracts with customers to transfer goods or services or enters into contracts for the transfer of nonfinancial assets unless those contracts are within the scope of other standards. The core principal of ASU No. 2014-09 is that a company will recognize revenue when it transfers promised goods or services to customers in an amount that reflects the consideration to which the company expects to be entitled in exchange for those goods or services. In doing so, companies will need to use more judgment and make more estimates than under current guidance. These may include identifying performance obligations in the contract, estimating the amount of variable consideration to include in the transaction price and allocating the transaction price to each separate performance obligation. ASU No. 2014-09 is effective for annual reporting periods beginning after December 15, 2016, including interim periods within that reporting period, which will be our fiscal year 2017 (or December 31, 2017), and entities can transition to the standard either retrospectively or as a cumulative-effect adjustment as of the date of adoption. Early adoption is prohibited. We are currently in the process of evaluating the impact of adoption of ASU No. 2014-09 on our consolidated financial statements and related disclosures.

Recently Adopted Accounting Policies

In July 2013, the FASB issued ASU No. 2013-11, Income Taxes (Topic 740): Presentation of an Unrecognized Tax Benefit When a Net Operating Loss Carryforward, a Similar Tax Loss, or a Tax Credit Carryforward Exists (a consensus of the FASB Emerging Issues Task Force) (ASU 2013-11), which provides clarification on the financial statement presentation of unrecognized tax benefits. ASU 2013-11 specifies that an unrecognized tax benefit (or a portion thereof) shall be presented in the financial statements as a reduction to a deferred tax asset when a net operating loss carryforward, a similar tax loss, or a tax credit carryforward exists. If such deferred tax asset is not available at the reporting date to settle additional income taxes resulting from the disallowance of a tax position, or the entity does not plan to use the deferred tax asset for such purpose given the option, the unrecognized tax benefit shall be presented in the financial statements as a liability and shall not be combined with deferred tax assets. The amendments in ASU 2013-11 are effective for fiscal years (and interim periods within those years) beginning after December 15, 2013, with early adoption permitted. The adoption of this standard did not have a significant impact on our financial position or results of operations.

In February 2013, the FASB issued Accounting Standards Updates, or ASU, No. 2013-02, "Other Comprehensive Income." This ASU requires an entity to provide information about the amounts reclassified out of accumulated other comprehensive income by component. In addition, an entity is required to present, either on the face of the statement where net income is presented or in the notes, significant amounts reclassified out of accumulated other comprehensive income by the respective line items of net income but only if the amount reclassified is required under generally accepted accounting principles in the United States, or U.S. GAAP, to be reclassified to net income in its entirety in the same reporting period. For other amounts that are not required under U.S. GAAP to be reclassified in their entirety to net income, an entity is required to cross-reference to other disclosures required under U.S. GAAP that provide additional detail about those amounts. The adoption of this standard did not have a significant impact on our financial position or results of operations.

3. FINANCIAL INSTRUMENTS AND RISK

For certain of our financial instruments, including cash and cash equivalents, amounts receivable, accounts payable, accrued liabilities other, accrued clinical liabilities, accrued compensation and lease termination liability carrying values approximate fair value due to their short-term nature. Our cash equivalents and short-term investments are recorded at fair value.

Financial risk is the risk to our results of operations that arises from fluctuations in interest rates and foreign exchange rates and the degree of volatility of these rates as well as credit risk associated with the financial stability of the issuers of the financial instruments. Foreign exchange rate risk arises as a portion of our investments which finance operations and a portion of our expenses are denominated in other than U.S. dollars.

We invest our excess cash in accordance with investment guidelines, which limit our credit exposure to any one financial institution or corporation other than securities issued by the U.S. government. We only invest in A (or equivalent) rated securities with maturities of one year or less. These securities generally mature within one year or less and in some cases are not collateralized. At December 31, 2014 the average days to maturity of our portfolio of cash equivalents and marketable securities was 174 days (December 31, 2013 – 50 days). We do not use derivative instruments to hedge against any of these financial risks.

4. COLLABORATION AGREEMENT

In December 2009, we, through our wholly-owned subsidiary, OncoGenex Technologies, entered into a collaboration agreement with Teva Pharmaceutical Industries Ltd., or Teva, for the development and global commercialization of custirsen (and related

compounds), a pharmaceutical compound designed to inhibit the production of clusterin, a protein we believe is associated with cancer treatment resistance, or the Licensed Product. In December 2014, we and Teva entered into an agreement pursuant to which we agreed to cooperate in good faith to negotiate and execute a final termination agreement providing, among other things, for the termination of our collaboration agreement. These negotiations are ongoing, and we cannot provide assurance regarding if or when the collaboration agreement will be terminated, or regarding the full terms under which control of the development of custirsen, including ongoing clinical trials, will be transferred to us. If the collaboration agreement is terminated, we do not expect to receive any future amounts from Teva beyond the amounts paid in connection with such termination and we expect to take responsibility for all future development costs.

Under the collaboration agreement, Teva paid us upfront payments in the aggregate amount of \$50 million, acquired \$10 million of our common stock at a premium under a separate Stock Purchase Agreement and agreed to pay up to \$370 million upon the achievement of developmental and commercial milestones and royalties at percentage rates ranging from the mid-teens to mid-twenties on net sales, depending on aggregate annual net sales of the Licensed Product. We did not receive any payments from Teva resulting from the achievement of developmental or commercial milestones or royalties in 2014.

Under the Stock Purchase Agreement, Teva's \$10 million equity investment in OncoGenex was made at a 20% premium to a thirty-day average closing price, resulting in the issuance of 267,531 of our common shares purchased at a price of \$37.38 per share. The 20% share premium was included as consideration for the custirsen license and was included in Collaboration Revenue.

In connection with the collaboration agreement and pursuant to the terms of agreements between us and IsisPharmaceuticals, Inc., or Isis, relating to custirsen, we paid Isis \$10 million which was recorded as research and development expense in 2009. We also paid approximately \$0.3 million to the University of British Columbia, or UBC, pursuant to the terms of their license agreement relating to custirsen, which was recorded as research and development expense in 2009. Pursuant to the terms of the agreements, we anticipate that we would be required to pay third parties 21% of any milestone payments that are not based on a percentage of net sales of the Licensed Product. Pursuant to the terms of these agreements, we anticipate we will pay royalties to third-parties of 4.88% to 8.00% of net sales, unless our royalties are adjusted for competition from generic compounds, in which case royalties to third parties will also be subject to adjustment on a country-by-country basis. Certain third-party royalties are tiered based on the royalty rate received by us. Minimum royalty rates payable by us assume certain third-party royalties are not paid at the time that the Licensed Product is marketed due to the expiration of patents held by such third parties. Maximum royalty rates assume all third-party royalty rates currently in effect continue in effect at the time the Licensed Product is marketed. We did not make any royalty payments to Isis in 2014. Teva has the exclusive worldwide right and license to develop and commercialize products containing custirsen and related compounds. We have an option to co-promote any Licensed Product in the United States and Canada.

Under the collaboration agreement, unless otherwise terminated, Teva is responsible for all costs relating to product commercialization including costs incurred in relation to our co-promotion option, except for start-up costs in advance of commercialization.

In March 2012, OncoGenex Technologies and Teva entered into an amendment to the collaboration agreement. Under this amendment, OncoGenex Technologies and Teva revised the clinical development plan, under which the following three phase 3 clinical trials have been initiated:

- The SYNERGY Trial: The phase 3 clinical trial to evaluate a survival benefit for custirsen in combination with first-line docetaxel treatment in patients with castrate resistant prostate cancer, or CRPC.
- The AFFINITY Trial: The phase 3 clinical trial to evaluate a survival benefit for custirsen in combination with cabazitaxel treatment as second-line chemotherapy in patients with CRPC.
- The ENSPIRIT Trial: The phase 3 clinical trial to evaluate a survival benefit for custirsen in combination with docetaxel treatment as second-line chemotherapy in patients with NSCLC.

Teva will be responsible for conducting any other studies and development work necessary to obtain required regulatory approvals. We may assume some of these activities if assigned by the joint steering committee. Teva will be responsible for all such costs. The joint steering committee will oversee the development and regulatory approval of any Licensed Product. We may terminate our participation in the joint steering committee at any time.

We have fulfilled our obligation of funding \$30 million towards the development of custirsen as of December 31, 2013, which included our personnel costs for certain development activities. Teva is funding all other expenses under the collaboration agreement including the three phase 3 clinical trials under the clinical development plan.

The collaboration agreement with Teva will remain in effect, unless terminated earlier, on a country-by-country basis, until the expiration of the obligation of Teva to pay royalties on sales of the Licensed Product in such country (or earlier termination under its terms). After the completion of all three phase 3 clinical trials set forth in the clinical development plan, or upon early termination due

to a material adverse change in our patent rights related to custirsen or safety issues or “futility” as defined in the collaboration agreement, Teva may terminate the collaboration agreement at its sole discretion upon three months’ notice if notice is given prior to regulatory approval of a Licensed Product and upon six months’ notice if notice is given after such regulatory approval. If Teva terminates the collaboration agreement for any reasons other than an adverse change in custirsen patent rights, safety issues or “futility” determination as previously described, it will remain responsible for paying for any remaining costs of all three phase 3 clinical trials, except for specified development expenses that are our responsibility.

Either party may terminate the collaboration agreement for an uncured material breach by the other party, unless such breach is not curable, in which case the agreement may not be terminated unless the other party fails to use commercially reasonable efforts to prevent a similar subsequent breach. Either party also may terminate the collaboration agreement upon the bankruptcy of either party. If the collaboration agreement is terminated by us for other than an uncured material breach by Teva, we will pay Teva a royalty on sales of Licensed Products. The percentage rates of such royalties (which are in the single digits) vary depending on whether termination occurs prior to the first regulatory approval in the United States or a primary European Market or after one of these approvals. These royalties would expire on a country-by-country basis on the earlier of ten years after the first commercial sale of a Licensed Product or certain thresholds related to generic competition.

In the event of a change of control of OncoGenex, within 90 days of the change of control, Teva may terminate the joint steering committee at its sole discretion, terminate the co-promotion option at its sole discretion if the option has not been exercised by us or, if exercised, but not yet executed by us, or terminate the co-promotion option if in its commercially reasonable opinion co-promotion with our successor would be materially detrimental to Teva’s interests.

Revenue from Teva for the years ended December 31, 2014, 2013 and 2012 was \$27.1 million, \$29.9 million and \$20.1 million, respectively. All of the December 31, 2014 amount receivable balance of \$5.7 million represents unbilled expense reimbursements from Teva, for which we bill quarterly in arrears. Consequently, we are exposed to a significant concentration of credit risk. Revenue earned in 2014 and 2013 consists of reimbursable clinical trial, manufacturing and preclinical costs incurred by us under the Amended Clinical Development Plan. Revenue earned in 2012 consisted primarily of the recognition of the remaining balance of Deferred Collaboration Revenue as well as reimbursable clinical trial, manufacturing and preclinical costs incurred by us.

Amendment to Isis and UBC License Agreements

To facilitate the execution and performance of the collaboration agreement with Teva, we amended our license agreements with Isis and UBC, as it pertains to custirsen, in December 2009.

The amendment to the license agreement with Isis provides, among other things, that if we are the subject of a change of control with a third party, where the surviving company immediately following such change of control has the right to develop and sell the product, then (i) a milestone payment of \$20 million will be due and payable to Isis 21 days following the first commercial sale of the product in the United States; and (ii) unless such surviving entity had previously sublicensed the product and a royalty rate payable to Isis by us has been established, the applicable royalty rate payable to Isis will thereafter be the maximum amount payable under the license agreement. Any non-royalty milestone amounts previously paid will be credited toward the \$20 million milestone if not already paid. As a result of the \$10 million milestone payment payable to Isis in relation to the collaboration agreement with Teva, the remaining amount owing in the event of change of control discussed above is a maximum of \$10 million. As we have now licensed the product to Teva and established a royalty rate payable to Isis, no royalty rate adjustments would apply if Teva acquires us and is the surviving company. The \$30 million in advanced reimbursement of development activities has been fully spent by us prior to the third anniversary of the collaboration agreement with Teva. As a result, we do not owe any payment to Isis related to the \$30 million advance reimbursement from Teva.

5. FAIR VALUE MEASUREMENTS

Assets and liabilities recorded at fair value in the balance sheets are categorized based upon the level of judgment associated with the inputs used to measure their fair value. For certain of our financial instruments including amounts receivable and accounts payable the carrying values approximate fair value due to their short-term nature.

ASC 820 “Fair Value Measurements and Disclosures,” specifies a hierarchy of valuation techniques based on whether the inputs to those valuation techniques are observable or unobservable. In accordance with ASC 820, these inputs are summarized in the three broad level listed below:

- Level 1 – Quoted prices in active markets for identical securities.
- Level 2 – Other significant inputs that are observable through corroboration with market data (including quoted prices in active markets for similar securities).

Level 3 – Significant unobservable inputs that reflect management’s best estimate of what market participants would use in pricing the asset or liability.

As quoted prices in active markets are not readily available for certain financial instruments, we obtain estimates for the fair value of financial instruments through third-party pricing service providers.

In determining the appropriate levels, we performed a detailed analysis of the assets and liabilities that are subject to ASC 820.

We invest our excess cash in accordance with investment guidelines that limit the credit exposure to any one financial institution other than securities issued by the U.S. Government. These securities are not collateralized and mature within one year.

A description of the valuation techniques applied to our financial instruments measured at fair value on a recurring basis follows.

Financial Instruments

Cash

Significant amounts of cash are held on deposit with large well established U.S. and Canadian financial institutions.

U.S. Government and Agency Securities

U.S. Government Securities U.S. government securities are valued using quoted market prices. Valuation adjustments are not applied. Accordingly, U.S. government securities are categorized in Level 1 of the fair value hierarchy.

U.S. Agency Securities U.S. agency securities are comprised of two main categories consisting of callable and non-callable agency issued debt securities. Non-callable agency issued debt securities are generally valued using quoted market prices. Callable agency issued debt securities are valued by benchmarking model-derived prices to quoted market prices and trade data for identical or comparable securities. Actively traded non-callable agency issued debt securities are categorized in Level 1 of the fair value hierarchy. Callable agency issued debt securities are categorized in Level 2 of the fair value hierarchy.

Corporate and Other Debt

Corporate Bonds and Commercial Paper The fair value of corporate bonds and commercial paper is estimated using recently executed transactions, market price quotations (where observable), bond spreads or credit default swap spreads adjusted for any basis difference between cash and derivative instruments. The spread data used are for the same maturity as the bond. If the spread data does not reference the issuer, then data that reference a comparable issuer are used. When observable price quotations are not available, fair value is determined based on cash flow models with yield curves, bond or single name credit default swap spreads and recovery rates based on collateral values as significant inputs. Corporate bonds and commercial paper are generally categorized in Level 2 of the fair value hierarchy; in instances where prices, spreads or any of the other aforementioned key inputs are unobservable, they are categorized in Level 3 of the hierarchy.

Warrants

As of December 31, 2014, we recorded a \$3.0 million warrant liability. We reassess the fair value of the common stock warrants classified as liabilities at each reporting date utilizing a Black-Scholes pricing model. Inputs used in the pricing model include estimates of stock price volatility, expected warrant life and risk-free interest rate. The computation of expected volatility is based on the historical volatility of shares of our common stock for a period that coincides with the expected life of the warrants that are classified as liabilities. Warrants that are classified as liabilities are categorized in Level 3 of the fair value hierarchy. A small change in the estimates used may have a relatively large change in the estimated valuation. Warrants that are classified as equity are not considered liabilities and therefore are not reassessed for their fair values at each reporting date.

The following table presents the changes in fair value of our total Level 3 financial liabilities for the year ended December 31, 2014. During the twelve months ended December 31, 2014 we issued 3.5 million common stock warrants that were classified as liabilities (in thousands):

	Liability at December 31, 2013	Issuance of Warrants	Unrealized Gain on warrants	Liability at December 31, 2014
Warrant liability	\$ 214	\$ 6,529	\$ (3,741)	\$ 3,002

The following table presents information about our assets and liabilities that are measured at fair value on a recurring basis, and indicates the fair value hierarchy of the valuation techniques we utilized to determine such fair value (in thousands):

<u>December 31, 2014</u>	<u>Level 1</u>	<u>Level 2</u>	<u>Level 3</u>	<u>Total</u>
Assets				
Cash	\$ 16,481	\$ —	\$ —	\$ 16,481
Money market securities	11,416	—	—	11,416
Restricted cash (Note 15)	251	—	—	251
Corporate bonds and commercial paper	—	19,160	—	19,160
Total assets	\$ 28,148	\$ 19,160	\$ —	\$ 47,308
Liabilities				
Warrants	\$ —	\$ —	\$ 3,002	\$ 3,002
December 31, 2013				
Assets				
Cash	\$ 10,575	\$ —	\$ —	\$ 10,575
Money market securities	4,018	—	—	4,018
Restricted Cash	314	—	—	314
Corporate bonds and commercial paper	—	24,629	—	24,629
Total assets	\$ 14,907	\$ 24,629	\$ —	\$ 39,536
Liabilities				
Warrants	\$ —	\$ —	\$ 214	\$ 214

Cash and cash equivalents and short term investments (in thousands):

<u>December 31, 2014</u>	<u>Amortized Cost</u>	<u>Gross Unrealized Gains</u>	<u>Gross Unrealized Losses</u>	<u>Estimated Fair Value</u>
Cash	\$ 16,481	\$ —	\$ —	\$ 16,481
Money market securities	11,416	—	—	11,416
Total cash and cash equivalents	\$ 27,897	\$ —	\$ —	\$ 27,897
Money market securities (restricted cash)	251	—	—	251
Total restricted cash	\$ 251	\$ —	\$ —	\$ 251
Corporate bonds and commercial paper	19,179	1	(20)	19,160
Total short-term investments	\$ 19,179	\$ 1	\$ (20)	\$ 19,160
December 31, 2013				
Cash	\$ 10,575	\$ —	\$ —	\$ 10,575
Money market securities	4,018	—	—	4,018
Total cash and cash equivalents	\$ 14,593	\$ —	\$ —	\$ 14,593
Money market securities (restricted cash)	314	—	—	314
Total restricted cash	\$ 314	\$ —	\$ —	\$ 314
Corporate bonds and commercial paper	24,627	3	(1)	24,629
Total short-term investments	\$ 24,627	\$ 3	\$ (1)	\$ 24,629

Our gross realized gains and losses on sales of available-for-sale securities were not material for the years ended December 31, 2014 and 2013.

All securities included in cash and cash equivalents have maturities of 90 days or less at the time of purchase. All securities included in short-term investments have maturities of within one year of the balance sheet date. The cost of securities sold is based on the specific identification method.

We only invest in A (or equivalent) rated securities with maturities of one year or less. We do not believe that there are any other than temporary impairments related to our investment in marketable securities at December 31, 2014, given the quality of the investment portfolio, its short-term nature, and subsequent proceeds collected on sale of securities that reached maturity.

6. PROPERTY AND EQUIPMENT

Property and equipment consisted of the following (in thousands):

	Cost	Accumulated Depreciation	Net Book Value
December 31, 2014			
Computer equipment	\$ 493	\$ 395	\$ 98
Furniture and fixtures	170	151	19
Leasehold improvements	55	55	—
Computer software	462	342	120
Equipment under capital lease	114	94	20
Total property and equipment	\$ 1,294	\$ 1,037	\$ 257
December 31, 2013			
Computer equipment	\$ 873	\$ 538	\$ 335
Furniture and fixtures	170	139	31
Leasehold improvements	54	53	1
Equipment under capital lease	114	84	30
Total property and equipment	\$ 1,211	\$ 814	\$ 397

7. EXCESS LEASE LIABILITY

On August 21, 2008, Sonus Pharmaceuticals, Inc., or Sonus, completed a transaction (“the Arrangement”) with OncoGenex Technologies Inc., or OncoGenex Technologies, whereby Sonus acquired all of the outstanding preferred shares, common shares and convertible debentures of OncoGenex Technologies. Sonus then changed its name to OncoGenex Pharmaceuticals, Inc. Prior to the Arrangement, Sonus entered into a non-cancellable lease arrangement for office space located in Bothell, Washington, which is considered to be in excess of our current requirements. The liability is computed as the present value of the difference between the remaining lease payments due less the estimate of net sublease income and expenses and has been accounted for in accordance with ASC 805-20, “Business Combinations -Identifiable Assets and Liabilities, and Any Noncontrolling Interest .” In February 2015, we entered into a Lease Termination Agreement with the landlord for the office space in Bothell such that the lease terminates effective March 1, 2015. Under the Lease Termination Agreement, we will pay BMR-217TH Place LLC (“BMR”) a \$2.0 million termination fee no later than the Termination Date. We will also pay BMR an additional termination fee of \$1.3 million within 30 days after we (i) meet the primary endpoint for our phase 3 clinical trial for the treatment of second line metastatic CRPC with custirsen and (ii) close a transaction or transactions pursuant to which we receive funding in an aggregate amount of at least \$20.0 million. As a result of the Lease Termination Agreement, we have recorded the lease termination fees and have made an adjustment to the lease liability to reflect the change in estimated liability. This represents our best estimate of the liability, see also Note 15.

(In thousands)	Liability at December 31, 2013	Amortization of excess lease facility	Reduction of Liability	Liability at December 31, 2014
Current portion of excess lease facility	\$ 1,081	\$ 33	\$ (920)	\$ 194
Long-term portion of excess lease facility	2,825	(818)	(2,007)	—
Total	\$ 3,906	\$ (785)	\$ (2,927)	\$ 194

8. OTHER ASSETS

Other assets include prepaid amounts related to clinical trials that will not be utilized in the next 12 months and deposits paid for office space in accordance with the terms of the operating lease agreements.

9. BARTER TRANSACTION

During 2012, we entered into a barter transaction, exchanging laboratory capital assets with a zero net book value for barter credits on future apatosen preclinical research services. The credits were recorded at the fair value of the laboratory capital assets exchanged, in accordance with ASC 845, “Nonmonetary Transactions” resulting in other income of \$0.2 million, which was recorded in our Consolidated Statement of Loss, in 2012. As of December 31, 2013 all the barter credits had been utilized in exchange for preclinical research services related to apatosen.

10. INCOME TAX

[a] The reconciliation of income tax attributable to operations computed at the statutory tax rate to income tax expense is as follows. OncoGenex Technologies, a Canadian corporation, which is subject to combined Canadian federal and provincial statutory tax rates for December 31, 2014, 2013, and 2012 of 26.0%, 25.75%, and 25.0%, respectively. Following the reverse takeover by OncoGenex Technologies of Sonus Pharmaceuticals, Inc. (which subsequently changed its name to OncoGenex Pharmaceuticals, Inc.) in 2008, OncoGenex Technologies became a wholly owned subsidiary of OncoGenex Pharmaceuticals, which is a Delaware incorporated company subject to US Federal Statutory rates of 34% for all three years presented.

For the purposes of estimating the tax rate in effect at the time that deferred tax assets and liabilities are expected to reverse, we used the furthest out available future tax rate in the applicable jurisdictions. For the years ended December 31, 2014, 2013 and 2012 the future Canadian enacted rates we used were 26%, 26%, and 25%, respectively, while for the US the future enacted rate we used was 34% for all three periods presented.

<u>(In thousands)</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>
Income taxes at statutory rates (at a rate of 34% for all periods presented)	\$ (8,922)	\$ (10,829)	\$ (7,152)
Expenses not deducted for tax purposes	(452)	(738)	(1,212)
Effect of tax rate changes on deferred tax assets and liabilities	(9)	(744)	—
Rate differential on foreign earnings	1,445	2,003	1,672
Reduction (increase) in benefit of operating losses	441	(10)	15
Reduction in the benefit of other tax attributes	—	—	551
Investment tax credits	(357)	(347)	(485)
Change in valuation allowance	7,854	10,538	6,324
Book to tax return adjustments	—	127	287
Other	—	—	—
Income tax expense	\$ —	\$ —	\$ —

[b] At December 31, 2014, we have investment tax credits of \$2.4 million (2013—\$2.2 million) available to reduce future Canadian income taxes otherwise payable. We also have non-capital loss carryforwards of \$96.3 million (2013—\$80.9 million) available to offset future taxable income in Canada and federal net operating loss carryforwards of \$151.1 million (2013—\$150.2 million) to offset future taxable income in the United States.

Under Section 382 of the Internal Revenue Code of 1986, substantial changes in our ownership may limit the amount of net operating loss carryforwards and development tax credit carryforwards that could be utilized annually in the future to offset taxable income. Any such annual limitation may significantly reduce the utilization of the net operating losses and tax credits before they expire. A 382 limitation study has been undertaken but the study is not complete. The final results of this study could indicate that the U.S. losses may be materially limited; however, the amount of such limitation cannot be reasonably quantified at this time, but may be significant. In each period since our inception, we have recorded a valuation allowance for the full amount of our deferred tax asset, as the realization of the deferred tax asset is uncertain.

As a result, we have not recognized any federal or state income tax benefit in our statement of operations. The initial public offering of common stock by us in 1995 caused an ownership change pursuant to applicable regulations in effect under the Internal Revenue Code of 1986. Therefore, our use of losses incurred through the date of ownership change will be limited during the carryforward period and may result in the expiration of net operating loss carryforwards in the United States before utilization.

The investment tax credits and non-capital losses and net operating losses for income tax purposes expire as follows (in thousands):

	Investment Tax Credits	Net Operating Losses	Non-capital Losses
2012	—	44	—
2013	—	—	—
2014	—	—	—
2015	—	—	—
2016	—	—	—
2017	—	—	—
2018	150	10,795	—
2019	102	32	—
2020	76	2,745	—
2021	69	400	—
2022	105	11,766	—
2023	96	10,785	—
2024	111	16,814	—
2025	144	2,062	—
2026	400	27,157	7,335
2027	173	22,225	4,949
2028	390	12,648	8,020
2029	317	4,358	(9)
2030	346	5,034	6,288
2031	608	6,200	12,121
2032	505	8,418	17,278
2033	422	2,520	23,240
2034	434	7,109	17,085
	\$ 4,448	\$ 151,112	\$ 96,307

In addition, we have unclaimed tax deductions of approximately \$14.8 million related to scientific research and experimental development expenditures available to carry forward indefinitely to reduce Canadian taxable income of future years. We also have research and development tax credits of \$2.0 million available to reduce future taxes payable in the United States. The research and development tax credits expire between 2015 and 2034.

[c] Significant components of our deferred tax assets as of December 31 are shown below (in thousands):

	2014	2013
Deferred tax assets:		
Tax basis in excess of book value of assets	\$ 4,871	\$ 951
Non-capital loss carryforwards	76,403	72,115
Research and development deductions and credits	7,464	6,857
Stock options	3,163	2,578
Capital loss carryforward	—	—
Restructuring liability	(25)	1,567
Other	110	70
Total deferred tax assets	91,986	84,138
Valuation allowance	\$ (91,986)	\$ (84,138)

The potential income tax benefits relating to these deferred tax assets have not been recognized in the accounts as their realization did not meet the requirements of “more likely than not” under the liability method of tax allocation. Accordingly, a valuation allowance has been recorded and no deferred tax assets have been recognized as at December 31, 2014 and 2013.

[d] Under ASC 740, the benefit of an uncertain tax position that is more likely than not of being sustained upon audit by the relevant taxing authority must be recognized at the largest amount that is more likely than not to be sustained. No portion of the benefit of an uncertain tax position may be recognized if the position has less than a 50% likelihood of being sustained.

A reconciliation of the unrecognized tax benefits of uncertain tax positions for the year ended December 31, 2014 is as follows (in thousands):

	Year ended December 31,	
	2014	2013
Balance at January 1	\$ 2,007	\$ 1,967
Additions based on tax positions related to the current year	32	32
Additions based on tax positions related to prior years	—	8
Deductions based on tax positions related to the current year	—	—
Balance at December 31	<u>\$ 2,039</u>	<u>\$ 2,007</u>

As of December 31, 2014, unrecognized benefits of approximately \$2.0 million, if recognized, would affect our effective tax rate, and would reduce our deferred tax assets.

Our accounting policy is to treat interest and penalties relating to unrecognized tax benefits as a component of income taxes. As of December 31, 2014 and December 31, 2013 we had no accrued interest and penalties related to income taxes.

We are subject to taxes in Canada and the U.S. until the applicable statute of limitations expires. Tax audits by their very nature are often complex and can require several years to complete.

Tax Jurisdiction	Years open to examination
Canada	2007 to 2014
US	2011 to 2014

11. COMMON STOCK

[a] Authorized

50,000,000 authorized common voting share, par value of \$0.001, and 5,000,000 preferred shares, par value of \$0.001.

[b] Issued and outstanding shares

October 2010 Public Offering

On October 22, 2010, we completed a public offering of 3,174,602 units, with each unit consisting of one share of our common stock and one-half (1/2) of one warrant, at a purchase price of \$15.75 per unit for an aggregate offering amount of \$50 million.

Each whole warrant is exercisable at any time on or after the date of issuance until the fifth anniversary of the date of issuance at an exercise price of \$20, and includes a cashless exercise feature. We account for warrants issued in October 2010 under the authoritative guidance on accounting for derivative financial instruments indexed to, and potentially settled in, a company's own stock, on the understanding that in compliance with applicable securities laws, the registered warrants require the issuance of registered securities upon exercise and do not sufficiently preclude an implied right to net cash settlement. We classify warrants on the accompanying consolidated balance sheet as a liability which is revalued at each balance sheet date subsequent to the initial issuance. We use the Black-Scholes pricing model to value the warrants. Determining the appropriate fair-value model and calculating the fair value of registered warrants requires considerable judgment. On the date of issuance, the Black-Scholes value of the warrant was based on an assumed risk-free rate of 1.17%, volatility of 75% and an expected life of 5 years. Changes in the fair market value of the warrants are reflected in the consolidated statement of loss as gain (loss) on warrants.

The net proceeds to us, after underwriting discounts and commissions and other offering expenses, from the sale of the units were \$46.7 million, of which \$32.3 million was allocated to common shares and included in additional paid-in capital and \$15.4 million was allocated to warrant liability. \$1 million of underwriting discounts and commissions and other offering expenses allocated to the value of warrants was expensed in warrant issuance expense on our consolidated statement of loss.

March 2012 Public Offering

On March 21, 2012, we completed a public offering of 4,165,000 shares of our common stock at a purchase price of \$12.00 per share. Pursuant to an overallotment option exercised on March 27, 2012 by the underwriters in the offering, an additional offering of 624,750 shares of our common stock were issued at a price of \$12.00 per share. The total gross offering amount from the public offering and exercise of the overallotment option was approximately \$57.5 million. The total net proceeds to us from the public offering and exercise of the overallotment option, after deducting underwriting discounts and commissions and other offering expenses from the sale of the shares were approximately \$53.8 million.

At-The-Market Issuance Sales Agreement

In June 2013, we entered into an At-the-Market Issuance Sales Agreement, or Sales Agreement, with MLV & Co. LLC, or MLV, under which we may offer and sell shares of our common stock having aggregate sales proceeds of up to \$25 million from time to time through MLV as our sales agent. Sales of our common stock through MLV, if any, will be made by any method permitted that is deemed an "at the market" offering as defined in Rule 415 under the Securities Act of 1933, as amended, including by means of ordinary brokers' transactions on The NASDAQ Capital Market or otherwise at market prices prevailing at the time of sale, in block transactions, or as otherwise agreed upon by us and MLV. MLV will use commercially reasonable efforts to sell our common stock from time to time, based upon instructions from us (including any price, time or size limits or other customary parameters or conditions we may impose). We will pay MLV a commission of up to 3.0% of the gross sales proceeds of any shares of common stock sold through MLV under the Sales Agreement. We are not obligated to make any sales of common stock under the Sales Agreement. The offering of our shares of common stock pursuant to the Sales Agreement will terminate upon the earlier of (i) the sale of all common stock subject to the Sales Agreement or (ii) termination of the Sales Agreement in accordance with its terms.

As of December 31, 2014, we have offered and sold 809,214 shares of our common stock pursuant to our At-the-Market Issuance Sales Agreement with MLV & Co. LLC. These sales resulted in gross proceeds to us of approximately \$3.0 million and offering expenses of \$0.1 million. As of September 30, 2014, shares of our common stock having an aggregate value of approximately \$22.0 million remained available for sale under this offering program.

July 2014 Registered Offering

On July 2, 2014, we completed an underwritten registered offering pursuant to which we sold 5,559,866 Series A units at a price per unit of \$3.48 and 1,340,538 Series B units at a price per unit of \$3.47.

Each Series A unit consisted of one share of common stock and a Series A warrant to purchase up to one-half of one share of common stock at an initial exercise price of \$4.00 per share. Each Series A warrant is exercisable at any time on or after the date of issuance until the fifth anniversary of the issuance of the Series A warrants.

Each Series B unit consisted of a Pre-Funded Series B warrant to purchase up to one share of common stock at an initial exercise price of \$0.01 per share and a Series B warrant to purchase up to one-half of one share of common stock at an initial exercise price of \$4.00 per share. Each Pre-Funded Series B warrant and Series B warrant is exercisable at any time on or after the date of issuance until the fifth anniversary of the issuance of the Pre-Funded Series B warrants and Series B warrants, respectively.

We received net proceeds of approximately \$22.4 million, after deducting underwriting discounts and commissions and offering expenses. Gross proceeds of \$24.0 million and underwriting discounts and commissions and offering expenses of \$1.6 million were allocated as follows:

	Common Stock	Series B Pre-funded Common Stock Warrants	Series A Common Stock Warrants	Series B Common Stock Warrants
Units Issued	5,559,866	1,340,538	2,779,933	670,269
Gross Proceeds (in thousands)	\$ 14,084	\$ 3,387	\$ 5,261	\$ 1,268
Underwriting discount and offering expense (in thousands)	\$ 885	\$ 213	\$ 428	\$ 103

The Series A and Series B common stock warrants are classified as liabilities. The underwriting discount and offering expenses allocated to the Series A and Series B common stock warrants have been expensed in the Consolidated Statement of Loss.

The common stock and Series B prefunded common stock warrants are classified as equity. The underwriting discount and offering expenses allocated to the common stock and Series B prefunded common stock warrants have been charged against the allocated gross proceeds.

Stock Option Exercises

During the year ended December 31, 2014, we issued 10,000 and 203,148 shares of common stock to satisfy stock option exercises and restricted stock unit settlements, respectively, compared with the issuance of 3,475 and 47,495 shares of common to satisfy stock option exercises and restricted stock unit settlements, respectively, for the years ended December 31, 2013. For the year ended December 31, 2012 we issued 117,347 shares of common stock to satisfy stock option exercises. There were no restricted stock unit settlements in 2012.

[c] Stock options

As at December 31, 2014 we had reserved, pursuant to our 2010 Performance Incentive Plan, 2,906,777 common shares for issuance upon exercise of stock options and settlement of restricted stock units by employees, directors, officers and consultants of ours, of which 1,283,419 are reserved for options currently outstanding, 680,201 are reserved for restricted stock units currently outstanding and 943,157 are available for future equity award grants under our 2010 Performance Incentive Plan. As of December 31, 2013 1,016,553 shares were available for equity award grants under our 2010 Performance Incentive Plan.

2010 Performance Incentive Plan

At our 2010 Annual Meeting of Stockholders held on May 26, 2011, our stockholders approved an amendment to our 2010 Performance Incentive Plan. As a result of this amendment, the 2010 Plan was amended to provide for an increase in the total shares of common stock available for issuance under the 2010 Plan from 450,000 to 1,050,000. At our 2013 Annual Meeting of Stockholders held on May 24, 2013, our stockholders approved an amendment to our 2010 Performance Incentive Plan. As a result of this amendment, the 2010 Plan was further amended to provide for an increase in the total shares of common stock available for issuance under the 2010 Plan from 1,050,000 to 2,050,000.

Under the plan, we may grant options to purchase common shares or restricted stock units to our employees, directors, officers and consultants. The exercise price of the options is determined by our board of directors but will be at least equal to the fair value of the common shares at the grant date. The options vest in accordance with terms as determined by our board of directors, typically over three to four years for options issued to employees and consultants, and over one to three years for members of our board of directors. The expiry date for each option is set by our board of directors with a maximum expiry date of ten years from the date of grant.

Options remain outstanding under a number of share option plans that had been approved by shareholders prior to the approval of the 2010 Performance Incentive Plan: (a) the Incentive Stock Option, Nonqualified Stock Option and Restricted Stock Purchase Plan – 1991 (1991 Plan), (b) the 1999 Nonqualified Stock Incentive Plan (1999 Plan), (c) the 2000 Stock Incentive Plan (2000 Plan), (d) the 2007 Performance Incentive Plan (2007 Plan) and (e) the OncoGenex Technologies Inc. Stock Option Plan (OncoGenex Technologies Plan).

ASC 718 Compensation – Stock Compensation

We recognize expense related to the fair value of our stock-based compensation awards using the provisions of ASC 718. We use the Black-Scholes option pricing model as the most appropriate fair value method for our stock options and recognize compensation expense for stock options on a straight-line basis over the requisite service period. In valuing our stock options using the Black-Scholes option pricing model, we make assumptions about risk-free interest rates, dividend yields, volatility and weighted average expected lives, including estimated forfeiture rates of the options.

The expected life was calculated based on the simplified method as permitted by the SEC's Staff Accounting Bulletin 110, *Share-Based Payment*. We consider the use of the simplified method appropriate because we believe our historical stock option exercise activity may not be indicative of future stock option exercise activity because of the AFFINITY clinical data results we expect to receive by late 2015 or early 2016, the structural changes to our business that may result and the potential impact of that data on our business operations and future stock option exercise activity. The expected volatility of options granted was calculated based on the historical volatility of the shares of our common stock. The risk-free interest rate is based on a U.S. Treasury instrument whose term is consistent with the expected life of the stock options. In addition to the assumptions above, as required under ASC 718, management made an estimate of expected forfeitures and is recognizing compensation costs only for those equity awards expected to vest. Forfeiture rates are estimated using historical actual forfeiture rates. These rates are adjusted on a quarterly basis and any change in compensation expense is recognized in the period of the change. We have never paid or declared cash dividends on our common stock and do not expect to pay cash dividends in the foreseeable future.

The estimated fair value of stock options granted in the respective periods was determined using the Black-Scholes option pricing model using the following weighted average assumptions:

	2014	2013	2012
Risk-free interest rates	1.83 %	1.25 %	0.96 %
Expected dividend yield	0 %	0 %	0 %
Expected life	5.9 years	5.8 years	5.9 years
Expected volatility	82 %	86 %	95 %

The weighted average fair value of stock options granted during the year ended December 31, 2014, 2013 and 2012 was \$6.52, \$8.07 and \$9.86 per share, respectively.

The results for the periods set forth below included stock-based compensation expense in the following expense categories of the consolidated statements of loss (in thousands):

	Years ended December 31,		
	2014	2013	2012
Research and development	\$ 1,893	\$ 1,296	\$ 899
General and administrative	1,967	1,538	1,276
Total stock-based compensation	\$ 3,860	\$ 2,834	\$ 2,175

Options vest in accordance with terms as determined by our board of directors, typically over three or four years for employee and consultant grants and over one or three years for board of director option grants. The expiry date for each option is set by our board of directors with, which is typically seven to ten years. The exercise price of the options is determined by our board of directors but is at least equal to the fair value of the share at the grant date.

Stock option transactions and the number of stock options outstanding are summarized below:

	Number of Optioned Common Shares	Weighted Average Exercise Price
Balance, January 1, 2012	766,828	\$ 9.82
Granted	172,650	12.97
Expired	(12,309)	9.10
Exercised	(117,347)	3.94
Forfeited	(4,541)	15.26
Balance, December 31, 2012	805,281	\$ 11.34
Granted	239,282	11.32
Expired	(3,061)	4.11
Exercised	(3,475)	3.00
Forfeited	(30,536)	13.87
Balance, December 31, 2013	1,007,491	\$ 11.39
Granted	382,097	8.97
Expired	(12,169)	18.93
Exercised	(10,000)	3.00
Forfeited	(84,000)	12.14
Balance, December 31, 2014	1,283,419	\$ 10.55

The following table summarizes information about stock options outstanding at December 31, 2014 regarding the number of ordinary shares issuable upon: (1) outstanding options and (2) vested options.

(1) Number of common shares issuable upon exercise of outstanding options:

<u>Exercise Prices</u>	<u>Number of Options</u>	<u>Weighted-Average Exercise Price</u>	<u>Weighted-Average Remaining Contractual Life (in years)</u>
\$2.11 - \$2.85	81,000	\$ 2.50	6.05
\$2.86 - \$3.09	219,125	3.00	1.00
\$3.10 - \$10.27	119,879	4.92	8.02
\$10.28 - \$11.70	31,000	10.90	8.09
\$11.71 - \$11.84	226,997	11.79	9.20
\$11.85 - \$11.99	165,571	11.95	8.14
\$12.00 - \$13.06	141,175	12.88	7.26
\$13.07 - \$15.74	41,176	14.28	6.46
\$15.75 - \$16.40	119,750	15.97	5.95
\$16.41 - \$22.28	137,746	20.19	5.22
Total	1,283,419	\$ 10.55	6.30

(2) Number common shares issuable upon exercise of vested options:

<u>Exercise Prices</u>	<u>Number of Options</u>	<u>Weighted-Average Exercise Price</u>	<u>Weighted-Average Remaining Contractual Life (in years)</u>
\$2.11 - \$2.85	35,856	\$ 2.68	1.29
\$2.86 - \$3.09	219,125	3.00	1.00
\$3.10 - \$10.27	32,452	6.83	4.25
\$10.28 - \$11.70	29,750	10.87	8.15
\$11.71 - \$11.84	51,873	11.79	9.20
\$11.85 - \$11.99	81,266	11.95	8.11
\$12.00 - \$13.06	110,840	12.84	7.24
\$13.07 - \$15.74	33,870	14.41	6.20
\$15.75 - \$16.40	119,750	15.97	5.95
\$16.41 - \$22.28	136,830	20.21	5.21
Total	851,612	\$ 11.12	4.95

As at December 31, 2014 the total unrecognized compensation expense related to stock options granted was \$2.7 million, which is expected to be recognized into expense over a period of approximately 2.5 years.

The estimated grant date fair value of stock options vested during the years ended December 31, 2014, 2013 and 2012 was \$1.9 million, \$1.8 million and \$1.6 million, respectively.

The aggregate intrinsic value of options exercised was calculated as the difference between the exercise price of the stock options and the fair value of the underlying common stock as of the date of exercise. The aggregate intrinsic value of options exercised for the years ended December 31, 2014, 2013 and 2012 was \$51,100, \$34,000 and \$1.2 million, respectively. At December 31, 2014, the aggregate intrinsic value of the outstanding options was \$4,680 and the aggregate intrinsic value of the exercisable options was zero.

[d] Restricted Stock Unit Awards

We grant restricted stock unit awards that generally vest and are expensed over a four year period. We also grant restricted stock unit awards that vest in conjunction with certain performance conditions to certain executive officers and key employees. At each reporting date, we are required to evaluate whether achievement of the performance conditions is probable. Compensation expense is recorded over the appropriate service period based upon our assessment of accomplishing each performance provision. For the years ended December 31, 2014, 2013 and 2011, \$2.2 million, \$1.1 million and \$0.6 million, respectively, of stock based compensation expense was recognized related to these awards.

The following table summarizes our restricted stock unit award activity during the years ended December 31, 2014, 2013 and 2012:

	Number of Shares	Weighted Average Grant Date Fair Value
Balance, January 1, 2012	—	\$ —
Granted	180,085	13.01
Vested	—	—
Forfeited or expired	(8,000)	13.00
Balance, December 31, 2012	172,085	\$ 13.01
Granted	255,895	11.64
Vested	(50,773)	12.95
Forfeited or expired	(20,618)	12.51
Balance, December 31, 2013	356,589	\$ 12.06
Granted	814,800	6.48
Vested	(199,887)	7.00
Forfeited or expired	(291,301)	10.93
Balance, December 31, 2014	680,201	\$ 7.34

As of December 31, 2014, we had approximately \$3.5 million in total unrecognized compensation expense related to our restricted stock unit awards which is to be recognized over a weighted-average period of approximately 2.8 years.

[e] Stock Warrants

The following is a summary of outstanding warrants to purchase common stock at December 31, 2014:

	Total Outstanding and Exercisable	Exercise price per Share	Expiration Date
(1) Warrants issued in October 2010 financing	1,587,301	\$ 20.00	October 2015
(2) Series A Warrants issued in July 2014 financing	2,779,933	4.00	July 2019
(3) Series B Warrants issued in July 2014 financing	670,269	4.00	July 2019
(4) Pre-Funded Series B Warrants issued in July 2014 financing	—	0.01	July 2019

For the year ended December 31, 2014, all the Pre-Funded Series B warrants were exercised at a per unit price of \$0.01, a total of 1,340,538 shares of common stock were issued for proceeds of \$13,405. No warrants from the October 2010 financing and Series A and Series B warrants from the July 2014 financing were exercised in 2014. No warrants were exercised for the year ended December 31, 2013.

The warrants issued in the October 2010 financing and the Series A and Series B warrants issued in the July 2014 financing are classified as liabilities. The estimated fair value of warrants issued and classified as liabilities is reassessed at each reporting date using the Black-Scholes option pricing model. The Pre-Funded Series B warrants are classified as equity and are not reassessed for their fair value at the end of each reporting date. The following assumptions were used to value the warrants that are classified as liabilities on the following reporting dates:

October 2010 Warrant Valuation Assumptions	As of December 31,	
	2014	2013
Risk-free interest rates	0.25 %	0.33 %
Expected dividend yield	0 %	0 %
Expected life	0.81 years	1.8 years
Expected volatility	113.49 %	39.00 %

Series A and Series B Warrant Valuation Assumptions	As of December 31,	
	2014	2013
Risk-free interest rates	1.51 %	—
Expected dividend yield	0 %	—
Expected life	4.50 years	—
Expected volatility	62.91 %	—

[f] Shareholder Rights Plan

We have a Shareholder Rights Plan which was adopted in July 1996 and subsequently amended in July 2002, October 2005, August 2006, and May 2008 (the “Rights Plan”). Under the Plan our Board of Directors declared a dividend of one Preferred Stock Purchase Right (Right) for each outstanding common share of OncoGenex. Subject to the Rights Plan, each Right entitles the registered holder to purchase from us one one-hundredth of a share of Series A Junior Participating Preferred Stock at an exercise price of \$140, subject to adjustment. These Rights provide the holders with the right to purchase, in the event a person or group acquires 15% or more of our common stock, additional shares of our common stock having a market value equal to two times the exercise price of the Right. Pursuant to the Rights Plan, the one-for-eighteen reverse stock split caused a proportionate adjustment of the number of Rights associated with each share of common stock. Currently, eighteen Rights are associated with each share of common stock.

[g] 401(k) Plan

We maintain a 401(k) plan. Following the Arrangement, the Board of Directors of OncoGenex amended and restated the 401(k) plan whereas our securities are no longer offered as an investment option. This amendment prohibits the inclusion of our shares in the 401(k) plan, as well as any match of our shares to employee contributions.

[h] Loss per common share

The following table presents the computation of basic and diluted net loss attributable to common stockholders per share (in thousands, except per share and share amounts):

	Years ended December 31,		
	2014	2013	2012
Numerator			
Net loss	\$ (26,240)	\$ (31,849)	\$ (21,098)
Denominator			
Weighted average number of common shares outstanding	18,098,799	14,683,389	13,522,723
Basic and diluted net loss per common share	\$ (1.45)	\$ (2.17)	\$ (1.56)

As of December 31, 2014, 2013 and 2012 a total of 7.0 million, 3.0 million and 2.6million options, restricted stock units and warrants, respectively, have not been included in the calculation of potential common shares as their effect on diluted per share amounts would have been anti-dilutive.

12. RELATED PARTY TRANSACTIONS

There were no related party transactions during the periods ended December 31, 2014, 2013 or 2012, and no amounts were included in accounts payable and accrued liabilities as at December 31, 2014 and 2013.

13. COMMITMENTS AND CONTINGENCIES

Teva Pharmaceutical Industries Ltd.

In December 2009, we, through our wholly-owned subsidiary, OncoGenex Technologies, entered into a Collaboration Agreement with Teva for the development and global commercialization of custirsen (and related compounds). In December 2014, we and Teva entered into an agreement pursuant to which we agreed to cooperate in good faith to negotiate and execute a final termination agreement providing, among other things, for the termination of the the collaboration agreement. These negotiations are ongoing, and we cannot provide assurance regarding if or when the collaboration agreement will be terminated, or regarding the full terms under which control of the development of custirsen, including ongoing clinical trials, will be transferred to us. If the collaboration agreement is terminated, we do not expect to receive any future amounts from Teva beyond the amounts paid in connection with such termination and we expect to take responsibility for all future development costs.

Under the Collaboration Agreement, Teva made upfront payments in the aggregate amount of \$50 million, and will make additional payments up to \$370 million upon the achievement of developmental and commercial milestones and royalties at percentage rates ranging from the mid-teens to mid-twenties on net sales. Teva also acquired \$10 million of our common stock at a premium under a separate Stock Purchase Agreement. We have fulfilled our obligation to contribute \$30 million in direct and indirect costs towards the development of custirsen. Accordingly, Teva will fund all other expenses under the clinical development plan. The expenses funded by Teva during the years ended December 31, 2014, 2013 and 2012 represent all of our revenues in such periods.

Pursuant to the Collaboration Agreement, we agreed to collaborate with Teva in the development and global commercialization of custirsen. Teva received the exclusive worldwide right and license to develop and commercialize products containing custirsen and related compounds, or the Licensed Products. We have an option to co-promote custirsen in the United States and Canada. In March 2014, we exercised our option to enter into negotiations with Teva for a co-promotion agreement for any Licensed Product under the Collaboration Agreement in the United States and Canada.

In addition to the development costs noted above, Teva is also responsible for all costs relating to product commercialization including costs incurred in relation to our co-promotion option, except for start-up costs in advance of commercialization

Isis Pharmaceuticals Inc. and University of British Columbia

We are obligated to pay milestone payments of up to CAD \$1.6 million and \$7.75 million pursuant to license agreements with the UBC and Isis, respectively, upon the achievement of specified product development milestones related to apatorsen and OGX-225 and low to mid-single digit royalties on future product sales.

In addition, we are required to pay to Isis 20% of all non-royalty revenue (defined to mean revenue not based on net sales of products) we receive related to custirsen. Isis has disclosed in its SEC filings that it is entitled to receive 30% of the up to \$370 million in milestone payments we may receive from Teva as part of the collaboration agreement; however, we believe that certain of the milestone payments related to sales targets may qualify as royalty revenue (defined to mean revenue based on net sales of products), and therefore be subject to lesser royalty payment obligations. No assurance can be provided that we will be entitled to receive these milestone payments or, if we are, that the applicable amount payable to Isis will be less than 30%. We are also obligated to pay to UBC certain patent costs and annual license maintenance fees for the extent of the patent life of CAD \$8,000 per year. We paid Isis and UBC USD \$0.8 million and CAD \$0.1 million, respectively, in 2010 upon the initiation of a phase 2 clinical trial of apatorsen in patients with CRPC. We did not make any royalty payments to Isis under the terms of the agreement in 2013 or of 2014. The UBC agreements have effective dates ranging from November 1, 2001 to April 5, 2005 and each agreement expires upon the later of 20 years from its effective date or the expiry of the last patent licensed thereunder, unless otherwise terminated.

Unless otherwise terminated, the Isis agreements for custirsen and apatorsen will continue for each product until the later of 10 years after the date of the first commercial product sale, or the expiration of the last to expire of any patents required to be licensed in order to use or sell the product, unless OncoGenex Technologies abandons either custirsen or apatorsen and Isis does not elect to unilaterally continue development. The Isis agreement for OGX-225 will continue into perpetuity unless OncoGenex Technologies abandons the product and Isis does not elect to unilaterally continue development.

To facilitate the execution and performance of the Collaboration Agreement with Teva, we amended the license agreement with Isis and UBC, as it pertains to custirsen, in December 2009.

The amendment to the license agreement with Isis provides, among other things, that if we are subject to change of control with a third party, where the surviving company immediately following such change of control has the right to develop and sell the product, then (i) a milestone payment of \$20 million will be due and payable to Isis 21 days following the first commercial sale of the product in the United States; and (ii) unless such surviving entity had previously sublicensed the product and a royalty rate payable to Isis by us has been established, the applicable royalty rate payable to Isis will thereafter be the maximum amount payable under the license

agreement. Any non-royalty milestone amounts previously paid will be credited toward the \$20 million milestone if not already paid. As a result of the \$10 million milestone payment payable to Isis in relation to the Collaboration Agreement, the remaining amount owing in the event of change of control discussed above is a maximum of \$10 million. Because we have now licensed the product to Teva and established a royalty rate payable to Isis, no royalty rate adjustments would apply if Teva were to acquire us and become the surviving company.

Lease Arrangements [see also Note 15]

We have an operating lease agreement for office space being used in Vancouver, Canada, which expires in September 2015.

The future minimum annual lease payments under the Vancouver lease is CAD\$85,000 in 2015.

In November 2006, prior to the Arrangement, Sonus entered into a non-cancellable operating lease agreement for office space in Bothell, Washington, expiring in 2017 (Note 7). In connection with the lease, Sonus was required to provide a cash security deposit of approximately \$0.5 million, which is included in Other Assets. In addition, a standby letter of credit was issued by us in 2010, and \$0.3 million remains in a restricted money market account as collateral. We recorded a liability in the excess facilities lease charge of \$0.2 million as at December 31, 2014 (Note 7). In February 2015, we entered into a Lease Termination Agreement with BMR-217TH ("BMR") Place to terminate the lease, effective March 1, 2015. Under the Lease Termination Agreement, we will pay BMR a \$2.0 million termination fee no later than the Termination Date and a contingent termination fee of \$1.3 million, payable 30 days after we (i) meets the primary endpoint for our phase 3 clinical trial for the treatment of second line metastatic CRPC with custirsen and (ii) closes a transaction or transactions pursuant to which we receive funding in an aggregate amount of at least \$20.0 million. BMR will also draw approximately \$0.1 million on our letter of credit with respect to its payment of deferred state sales tax and, when paid, will terminate any remaining balance on the letter of credit. No later than March 31, 2015, BMR will return to us the security deposit under the Terminated Lease, less any amounts deductible in accordance with the terms of the Terminated Lease, see also Note 15.

The remaining future minimum annual lease payments under the terminated Bothell lease are as follows (in thousands):

2015	386
2016	—
Remainder	—
Total	\$ 386

Consolidated rent and operating expense relating to both the Vancouver, Canada and Bothell, Washington offices for years ended December 31, 2014, 2013 and 2012 was \$2.8 million, \$2.8 million and \$2.7 million, respectively.

Guarantees and Indemnifications

We indemnify our officers, directors and certain consultants for certain events or occurrences, subject to certain limits, while the officer or director is or was serving at its request in such capacity. The term of the indemnification period is equal to the officer's or director's lifetime.

The maximum amount of potential future indemnification is unlimited; however, we have obtained director and officer insurance that limits our exposure and may enable us to recover a portion of any future amounts paid. We believe that the fair value of these indemnification obligations is minimal. Accordingly, we have not recognized any liabilities relating to these obligations as of December 31, 2014.

We have certain agreements with certain organizations with which it does business that contain indemnification provisions pursuant to which it typically agrees to indemnify the party against certain types of third-party claims. We accrue for known indemnification issues when a loss is probable and can be reasonably estimated. There were no accruals for or expenses related to indemnification issues for any period presented.

Material Changes in Financial Condition

(in thousands)	December 31,	
	2014	2013
Total Assets	\$ 56,291	\$ 55,689
Total Liabilities	22,232	18,478
Total Equity	34,059	37,211

The increase in liabilities at December 31, 2014 compared with December 31, 2013 is primarily due to higher clinical trial accruals associated with patient enrollment and treatment in the AFFINITY trial and our investigator sponsored trials evaluating apatorsen.

14. QUARTERLY FINANCIAL INFORMATION (UNAUDITED)

The following table summarizes the unaudited statements of operations for each quarter of 2014 and 2013 (in thousands, except per share amounts):

	March 31	June 30	September 30	December 31
2014				
Collaboration revenue	\$ 11,731	\$ 4,929	\$ 4,803	\$ 5,653
Research and development	16,903	9,883	9,586	9,852
General and administrative	2,757	2,676	2,459	2,733
Restructuring gain	—	—	—	(267)
Total expenses	19,660	12,559	12,045	12,318
Other income	(707)	615	2,335	983
Net loss	(8,636)	(7,015)	(4,907)	(5,682)
Basic and diluted net loss per share	\$ (0.59)	\$ (0.47)	\$ (0.23)	\$ (0.26)
2013				
Collaboration revenue	\$ 5,076	\$ 6,340	\$ 9,862	\$ 8,604
Research and development	10,855	13,263	18,004	13,195
General and administrative	2,500	2,473	2,473	2,446
Total expenses	13,355	15,736	20,477	15,641
Other income	1,582	976	561	359
Net loss	(6,697)	(8,420)	(10,054)	(6,678)
Basic and diluted net loss per share	\$ (0.46)	\$ (0.57)	\$ (0.68)	\$ (0.45)

15. SUBSEQUENT EVENTS

In February 2015, we entered into a Lease Termination Agreement with BMR-217TH Place LLC (“BMR”), pursuant to which we and BMR agreed to terminate that certain Lease, dated November 21, 2006, as amended, for the premises located at 1522 217th Place S.E. in Bothell, Washington (“Terminated Lease”), effective March 1, 2015 (“Termination Date”). Under the Lease Termination Agreement, we will pay BMR a \$2.0 million termination fee no later than the Termination Date. We will also pay BMR an additional termination fee of \$1.3 million within 30 days after we (i) meets the primary endpoint for our phase 3 clinical trial for the treatment of second line metastatic CRPC with custirsen and (ii) closes a transaction or transactions pursuant to which we receive funding in an aggregate amount of at least \$20.0 million. BMR will also draw approximately \$0.1 million on our letter of credit with respect to its payment of deferred state sales tax and, when paid, will terminate any remaining balance on the letter of credit. No later than March 31, 2015, BMR will return to us the security deposit under the Terminated Lease, less any amounts deductible in accordance with the terms of the Terminated Lease.

With respect to the contingent payment of \$1.3 million, we have assessed that the likelihood of meeting both contingent events is more likely than not. As a result, we have recognized the \$1.3 million in lease termination liability on our balance sheet as at December 31, 2014.

In February 2015, we entered into an office lease (“New Lease”) with Grosvenor International (Atlantic Freeholds) Limited (“Landlord”), pursuant to which we will lease approximately 11,526 square feet located at 19820 North Creek Parkway, Bothell, Washington, 98011, commencing on February 15, 2015. We have the option to rent an additional 8,054 square feet before August 1, 2015. The initial term of the New Lease will expire on April 30, 2018, with an option to extend the term for one approximately three-year period. Our monthly base rent for the premises will start at approximately \$18,000 commencing on May 1, 2015 and will increase on an annual basis up to approximately \$20,000. The Landlord has agreed to provide us with a construction allowance of approximately \$0.1 million. We will be responsible for 17.11% of taxes levied upon the building during each calendar year of the term. We will also be obligated to deliver to the Landlord a letter of credit in the amount of \$0.2 million, which the Landlord may draw upon for base rent or other damages in the event of our default under the New Lease.

The future minimum annual lease payments under the New Lease Bothell lease are as follows (in thousands):

2015	144
2016	224
Remainder	315
Total	\$ 683

ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

None.

ITEM 9A. CONTROLS AND PROCEDURES

Evaluation of Disclosure Controls and Procedures

We maintain disclosure controls and procedures that are designed to ensure that material information required to be disclosed in our periodic reports filed or submitted under the Exchange Act, is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms. Our disclosure controls and procedures are also designed to ensure that information required to be disclosed in the reports we file or submit under the Exchange Act is accumulated and communicated to our management, including our principal executive officer and principal financial officer, as appropriate, to allow timely decisions regarding required disclosure.

We carried out an evaluation, under the supervision and with the participation of our management, including the principal executive officer and the principal financial officer, of the effectiveness of the design and operation of the disclosure controls and procedures, as defined in Rules 13a-15(e) and 15d-15(e) under the Exchange Act. Based on that evaluation, our principal executive officer and principal financial officer concluded that our disclosure controls and procedures were effective as of the end of the period covered by this Annual Report on Form 10-K.

Changes in Internal Control Over Financial Reporting

We have not made any changes to our internal control over financial reporting (as defined in Rule 13a-15(f) and 15d-15(f) under the Exchange Act) during the quarter ended December 31, 2014 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

Management's Report on Internal Control over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over our financial reporting, as defined in Rule 13a-15(f) under the Exchange Act. Our internal control over financial reporting is a process designed under the supervision of our principal executive and principal financial officers to provide reasonable assurance regarding the reliability of financial reporting and the preparation of our financial statements for external reporting purposes in accordance with U.S. generally accepted accounting principles.

As of December 31, 2014, management assessed the effectiveness of our internal control over financial reporting based on the framework established in "Internal Control—Integrated Framework" issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO) (2013 Framework). Based on this evaluation, management has determined that our internal control over financial reporting was effective as of December 31, 2014.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

The effectiveness of our internal control over financial reporting as of December 31, 2014 has been audited by Ernst & Young LLP, an independent registered public accounting firm, as stated in their report which is included above.

ITEM 9B. OTHER INFORMATION

Not applicable.

PART III

ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE

The information required hereunder is incorporated by reference from our definitive Proxy Statement to be filed within 120 days of December 31, 2014 and delivered to stockholders in connection with our 2015 Annual Meeting of Stockholders.

ITEM 11. EXECUTIVE COMPENSATION

The information required hereunder is incorporated by reference from our definitive Proxy Statement to be filed within 120 days of December 31, 2014 and delivered to stockholders in connection with our 2015 Annual Meeting of Stockholders.

ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

The following table sets forth certain information regarding our equity compensation plans as of December 31, 2014:

Plan category	(a)	(b)	(c)
	Number of securities to be issued upon exercise of outstanding options, restricted stock units, warrants and rights	Weighted-average exercise price of outstanding options, warrants and rights	Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected in column (a))
Equity compensation plans approved by security holders	1,952,902	(1) \$ 10.53	943,157 (1)
Equity compensation plans not approved by security holders ⁽²⁾	10,718	2.69	—
Total	1,963,620	\$ 10.55	943,157

- (1) As of December 31, 2014, we maintained the following equity compensation plans, which were approved by security holders: (a) 1999 Nonqualified Stock Incentive Plan, or the 1999 Plan, (b) the 2000 Stock Incentive Plan, (c) the 2007 Performance Incentive Plan, (d) the OncoGenex Technologies Amended and Restated Stock Option Plan and (e) the 2010 Performance Incentive Plan.
- (2) The 1999 Plan is a broad-based plan for which stockholder approval was not required or obtained. On February 11, 2010, the 1999 Plan terminated in accordance with its terms. All stock options, rights to purchase and restricted stock outstanding as of such time will continue in effect in accordance with their respective terms. Stock options granted under the 1999 Plan were generally granted with an exercise price equal to fair market value on the date of grant. Pursuant to the 1999 Plan, upon a change in control, the vesting period for outstanding options, rights to purchase and restricted stock granted under the 1999 Plan will accelerate and the administrator of the 1999 Plan may provide for the purchase or exchange of each option or right to purchase, adjust the terms of each option or right to purchase, cause the options and rights to purchase to be assumed, or new rights substituted therefor, or make such other provision as the administrator determines is equitable.

The remaining information required hereunder is incorporated by reference from our definitive Proxy Statement to be filed within 120 days of December 31, 2014 and delivered to stockholders in connection with our 2015 Annual Meeting of Stockholders.

ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS, AND DIRECTOR INDEPENDENCE

The information required hereunder is incorporated by reference from our definitive Proxy Statement to be filed within 120 days of December 31, 2014 and delivered to stockholders in connection with our 2015 Annual Meeting of Stockholders.

ITEM 14. PRINCIPAL ACCOUNTANT FEES AND SERVICES

The information required hereunder is incorporated by reference from our definitive Proxy Statement to be filed within 120 days of December 31, 2014 and delivered to stockholders in connection with our 2015 Annual Meeting of Stockholders.

PART IV

ITEM 15. EXHIBITS AND FINANCIAL STATEMENT SCHEDULES

(1) Financial Statements

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(2) All schedules are omitted because they are not required or the required information is included in the consolidated financial statements or notes thereto.

(3) Exhibits

Exhibit Number	Description	Incorporated by Reference				Filed/ Furnished Herewith
		Form	File No.	Exhibit	Filing Date	
2.1	Arrangement Agreement between the Company and OncoGenex Technologies Inc. dated May 27, 2008†	DEF 14A	000-21243	Annex A	July 3, 2008	
2.2	First Amendment to Arrangement Agreement between the Company and OncoGenex Technologies Inc. dated August 11, 2008	10-Q	000-21243	2.2	November 10, 2008	
2.3	Second Amendment to Arrangement Agreement between the Company and OncoGenex Technologies Inc. dated August 15, 2008	10-Q	000-21243	2.3	November 10, 2008	
3.1	Second Amended and Restated Certificate of Incorporation filed on May 24, 2013	8-K	033-80623	3.1	May 29, 2013	
3.2	Fifth Amended and Restated Bylaws of OncoGenex Pharmaceuticals, Inc.	10-Q	033-80623	3.1	August 2, 2012	
4.1	Specimen Certificate of Common Stock	10-Q	000-21243	4.1	November 10, 2008	
4.2	Amended and Restated Rights Agreement dated as of July 24, 2002 between Sonus Pharmaceuticals Inc. and U.S. Stock Transfer Corporation	8-A	000-21243	2.1	July 25, 2002	
4.3	First Amendment to Amended and Restated Rights Agreement dated as of October 17, 2005 between Sonus Pharmaceuticals Inc. and U.S. Stock Transfer Corporation	8-A	000-21243	2	October 18, 2005	
4.4	Second Amendment to Amended and Restated Rights Agreement dated as of August 10, 2006 between Sonus Pharmaceuticals Inc. and U.S. Stock Transfer Corporation	8-A	000-21243	3	August 14, 2006	
4.5	Third Amendment to Amended and Restated Rights Agreement dated May 27, 2008 between Sonus Pharmaceuticals Inc. and Computershare Trust Company, N.A.	8-K	000-21243	4.1	May 30, 2008	
4.6	Form of Warrant to Purchase Common Stock	8-K	033-80623	4.1	October 19, 2010	

Exhibit Number	Description	Incorporated by Reference				Filed/ Furnished Herewith
		Form	File No.	Exhibit	Filing Date	
4.7	Form of Series A Warrant	8-K	033-80623	4.1	June 27, 2014	
4.8	Form of Pre-Funded Series B Warrant	8-K	033-80623	4.2	June 27, 2014	
4.9	Form of Series B Warrant	8-K	033-80623	4.3	June 27, 2014	
10.2	Form of Incentive Option Agreement (pertaining to the 1991 Plan)††	S-1	33-96112	10.2	September 25, 1995	
10.3	Form of Sonus Pharmaceuticals, Inc. Nonqualified Stock Option Agreement under the 1991 Plan††	S-1	33-96112	10.3	September 25, 1995	
10.4	Sonus Pharmaceuticals, Inc. 1999 Nonqualified Stock Incentive Plan (the "1999 Plan")††	10-Q	000-21243	10.7	May 13, 1999	
10.5	Form of Sonus Pharmaceuticals, Inc. Nonqualified Stock Option Agreement under the 1999 Plan††	10-Q	000-21243	10.8	May 13, 1999	
10.6	Form of Sonus Pharmaceuticals, Inc. Restricted Stock Purchase Agreement under the 1999 Plan††	10-Q	000-21243	10.9	May 13, 1999	
10.7	Sonus Pharmaceuticals, Inc. 2000 Stock Incentive Plan (the "2000 Plan")††	10-Q	000-21243	10.41	August 14, 2000	
10.8	First Amendment to Sonus Pharmaceuticals, Inc. 2000 Plan††	10-Q	000-21243	10.23	November 8, 2006	
10.9	Form of Sonus Pharmaceuticals, Inc. Stock Option Agreement (pertaining to the 2000 Plan)††	10-Q	000-21243	10.42	August 14, 2000	
10.10	Sonus Pharmaceuticals, Inc. 2007 Performance Incentive Plan (the "2007 Plan")††	DEF 14A	000-21243	Appendix A	April 3, 2007	
10.11	Form of Sonus Pharmaceuticals, Inc. Stock Option Agreement (pertaining to the 2007 Plan)††	10-Q	000-21243	10.1	November 9, 2007	
10.12	Form of Sonus Pharmaceuticals, Inc. Restricted Stock Purchase Agreement under the 2007 Plan††	10-Q	000-21243	10.2	November 9, 2007	
10.13	OncoGenex Technologies Inc. Amended and Restated Stock Option Plan††	F-1	333-139293	10.1	December 13, 2006	
10.14	Stock Option Assumption, Amending and Confirmation Agreement dated as of August 21, 2008 between the Company and OncoGenex Technologies Inc.††	S-8	333-153206	4.2	August 26, 2008	
10.15	Form of OncoGenex Pharmaceuticals, Inc 2010 Stock Option Agreement††	8-K	033-80623	10.1	June 14, 2010	
10.16	Form of OncoGenex Pharmaceuticals, Inc. 2010 Restricted Stock Purchase Agreement††	8-K	033-80623	10.2	June 14, 2010	
10.17	Form of OncoGenex Pharmaceuticals, Inc. 2010 Restricted Stock Unit Agreement††	10-Q	033-80623	10.2	November 3, 2011	

Exhibit Number	Description	Incorporated by Reference				Filed/ Furnished Herewith
		Form	File No.	Exhibit	Filing Date	
10.18	OncoGenex Pharmaceuticals, Inc. Short Term Incentive Awards Program††	8-K	033-80623	10.1	April 2, 2009	
10.19	Agreement and Consent Form (related to the Short Term Incentive Awards Program)††	8-K	033-80623	10.2	April 2, 2009	
10.20	OncoGenex Pharmaceuticals, Inc. 2010 Performance Incentive Plan, as amended and restated††	DEF 14A	033-80623	A	April 24, 2014	
10.21	Form of Indemnification Agreement for Officers and Directors of the Company††	S-1	33-96112	10.19	September 25, 1995	
10.22	Form of Indemnification Agreement between OncoGenex Technologies Inc. and each of Scott Cormack and Cindy Jacobs††	F-1	333-139293	10.7	December 13, 2006	
10.23	Form of Indemnification Agreement between OncoGenex Technologies Inc. and Neil Clendeninn††	F-1	333-139293	10.8	December 13, 2006	
10.24	Employment Agreement between OncoGenex Technologies Inc. and the Company and Scott Cormack dated as of November 4, 2009††	10-Q	033-80623	10.25	November 5, 2009	
10.25	Employment Agreement between the Company and Cindy Jacobs dated as of November 3, 2009††	10-Q	033-80623	10.27	November 5, 2009	
10.26	Employment Agreement between OncoGenex Pharmaceuticals, Inc. and John Bencich††	8-K	033-80623	10.1	August 7, 2014	
10.27	Lease by and between BMR-217th Place LLC and the Company dated as of November 21, 2006	10-K	000-21243	10.39	March 16, 2007	
10.28	First Amendment to Lease by and between BMR-217th Place LLC and the Company dated as of August 17, 2007	10-K	000-21243	10.41	March 14, 2008	
10.29	Second Amendment to Lease by and between BMR-217th Place LLC and the Company dated as of January 28, 2008	10-Q	000-21243	10.1	May 9, 2008	
10.30	Amended and Restated License Agreement effective as of July 2, 2008 by and between OncoGenex Technologies Inc. and Isis Pharmaceuticals, Inc. (OGX-011)*	10-K	033-80623	10.36	March 11, 2009	
10.31	Letter Agreement Regarding Certain Sublicense Consideration for OGX-011 between OncoGenex Technologies Inc. and Isis Pharmaceuticals, Inc. dated December 18, 2009	10-K	033-80623	10.36	March 8, 2010	
10.32	Amendment No. 1 to Amended and Restated License Agreement between OncoGenex Technologies Inc. and Isis Pharmaceuticals, Inc. dated December 19, 2009 (OGX-011)*	10-K	033-80623	10.37	March 8, 2010	

Exhibit Number	Description	Incorporated by Reference				Filed/ Furnished Herewith
		Form	File No.	Exhibit	Filing Date	
10.33	License Agreement between OncoGenex Technologies Inc. and the University of British Columbia effective as of November 1, 2001, and Amending Agreement dated as of August 30, 2006 (OGX-011)*	F-1, Amendment No. 1	333-139293	10.13	January 29, 2007	
10.34	Second Amending Agreement and Consent as of August 7, 2008 between the University of British Columbia and OncoGenex Technologies Inc. (OGX-011)	10-Q	000-21243	2.3	November 10, 2008	
10.35	Third Amending Agreement to the License Agreement between OncoGenex Technologies Inc and the University of British Columbia dated as of December 20, 2009 (OGX-011)*	10-K	033-80623	10.40	March 8, 2010	
10.36	Collaboration and License Agreement between OncoGenex Technologies Inc. and Isis Pharmaceuticals, Inc. effective as of January 5, 2005 (OGX-427)*	F-1, Amendment No. 1	333-139293	10.11	January 29, 2007	
10.37	License Agreement between OncoGenex Technologies Inc. and the University of British Columbia effective as of April 5, 2005, and Amending Agreement dated as of August 30, 2006 (OGX-427)*	F-1, Amendment No. 1	333-139293	10.14	January 29, 2007	
10.38	Second Amending Agreement as of August 7, 2008 between the University of British Columbia and OncoGenex Technologies Inc. (OGX-427)	10-Q	000-21243	10.40	November 10, 2008	
10.39	Collaboration and License Agreement between OncoGenex Technologies Inc. and Teva Pharmaceutical Industries Ltd. dated as of December 20, 2009 (OGX-011)*	10-K	033-80623	10.44	March 8, 2010	
10.40	Amendment to the Collaboration and License Agreement between OncoGenex Technologies Inc. and Teva Pharmaceutical Industries Ltd. dated March 6, 2012	10-K	033-80623	10.49	March 8, 2012	
10.41	Agreement between OncoGenex Technologies Inc. and Teva Pharmaceutical Industries Ltd. dated December 29, 2014					X
10.42	At the Market Issuance Sale Agreement between OncoGenex Pharmaceuticals, Inc. and MLV & Co. LLC dated June 18, 2013	8-K	033-80623	1.1	June 18, 2013	
21.1	Subsidiaries of the Registrant					X
23.1	Consent of Ernst & Young LLP					X
24.1	Power of Attorney (included on the signature page hereto)					X
31.1	Certification of Chief Executive pursuant to Rule 13a-14(a) or 15d-14(a) of the Securities Exchange Act of 1934, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002					X
31.2	Certification of Chief Financial Officer pursuant to Rule 13a-14(a) or 15d-14(a) of the Securities Exchange Act of 1934, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002					X

Exhibit Number	Description	Incorporated by Reference			Filed/ Furnished Herewith
		Form	File No.	Exhibit	
32.1	Certification of Chief Executive Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002**				X
32.2	Certification of Chief Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002**				X
101.INS	XBRL Instance Document				X
101.SCH	XBRL Taxonomy Extension Schema Document				X
101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document				X
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document				X
101.LAB	XBRL Taxonomy Extension Label Linkbase Document				X
101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document				X
†	Schedules and similar attachments to the Arrangement Agreement have been omitted pursuant to Item 601(b)(2) of Regulation S-K. The Company will furnish supplementally a copy of any omitted schedule or similar attachment to the SEC upon request.				
††	Indicates management contract or compensatory plan or arrangement.				
*	Confidential portions of this exhibit have been omitted and filed separately with the Commission pursuant to an application for Confidential Treatment under Rule 24b-2 promulgated under the Securities Exchange Act of 1934, as amended.				
**	The certifications attached as Exhibits 32.1 and 32.2 accompany to this Annual Report on Form 10-K pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, and shall not be deemed filed for purposes of Section 18 of the Securities Exchange Act of 1934, as amended.				

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) 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.

ONCOGENEX PHARMACEUTICALS, INC.
(Registrant)

Date: March 26, 2015

By: /s/ SCOTT CORMACK
Scott Cormack
President and Chief Executive Officer

Power of Attorney

KNOW ALL PERSONS BY THESE PRESENTS, that each person whose signature appears below constitutes and appoints Scott Cormack and John Bencich, jointly and severally, as such person's attorneys-in-fact, each with the power of substitution, for such person in any and all capacities, to sign any amendments to this Annual Report on Form 10-K, and to file the same, with exhibits thereto and other documents in connection therewith, with the Securities and Exchange Commission, hereby ratifying and confirming all that each of said attorneys-in-fact, or his substitute or substitutes, may do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Exchange Act of 1934, this Report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

By: <u>/s/ SCOTT CORMACK</u> Scott Cormack	President and Chief Executive Officer	Date: March 26, 2015
By: <u>/s/ JOHN BENCICH</u> John Bencich	Chief Financial Officer	Date: March 26, 2015
By: <u>/s/ JACK GOLDSTEIN</u> Jack Goldstein	Chairman of the Board and Director	Date: March 26, 2015
By: <u>/s/ NEIL CLENDENINN</u> Neil Clendeninn	Director	Date: March 26, 2015
By: <u>/s/ MARTIN MATTINGLY</u> Martin Mattingly	Director	Date: March 26, 2015
By: <u>/s/ H. STEWART PARKER</u> H. Stewart Parker	Director	Date: March 26, 2015
By: <u>/s/ DAVID SMITH</u> David Smith	Director	Date: March 26, 2015

AGREEMENT BETWEEN ONCOGENEX TECHNOLOGIES, INC. (“OGX”) AND TEVA PHARMACEUTICAL INDUSTRIES LTD. (“Teva”)

- (1) The parties hereby agree to terminate the Collaboration and License Agreement, dated December 20, 2009 (the “Collaboration and License Agreement”), according to the terms set forth herein.
 - (2) To effectuate such termination, the parties will cooperate in good faith to negotiate and execute a final settlement agreement (the “Final Settlement Agreement”) within 20 days of the date hereof reflecting the following and other necessary and customary terms, and to conduct any reasonable remaining due diligence related to the settlement.
 - (3) On a date to be determined, but no later than 20 business days following execution of the Final Settlement Agreement (the “Closing Date”), Teva will pay OGX \$27 million (the “Settlement Amount”) and the Collaboration and License Agreement shall be terminated. The Settlement Amount, however, will be reduced by the amount of third-party expenses incurred and paid by Teva (including but not limited to those associated with CROs), following approval by OGX which approval shall not be unreasonably withheld, with respect to the ENSPIRIT and AFFINITY studies between January 1, 2015 and the Closing Date. If OGX does not approve any such expenses invoiced by a third party, then as between Teva and OGX, OGX shall remain responsible for same.
 - (4) Following the execution of the Final Settlement Agreement, Teva will use commercially reasonable efforts to assign all relevant third party agreements for the ENSPIRIT study on substantially the same terms and conditions to OGX on the Closing Date. Attached hereto as Exhibit A is a list of relevant third party agreements (including agreements with CROs). Teva represents and warrants that the agreements on Exhibit A are historical third-party agreements used to conduct the ENSPIRIT trial, and in the Final Settlement Agreement Teva will represent and warrant, to the best of its knowledge, that OGX has been provided with complete copies of all agreements including all exhibits, schedules, and related work orders. In the event that as of the Closing Date all third party agreements have not been assigned to OGX, the parties shall continue to use commercially reasonable efforts to thereafter effectuate the assignments, and in the interim, set-up an appropriate escrow account (to be funded by OGX) for the payment of amounts by OGX that become due under such non-assigned third-party agreements. In the event that after the Closing Date, Teva or OGX discover any additional historical third-party agreements used to conduct the ENSPIRIT trial, which agreements are necessary for the continued conduct of the ENSPIRIT trial as presently conducted, then Teva shall use its commercially reasonable efforts to assign them to OGX and Teva shall be responsible for costs invoiced under such agreements that are in excess of \$100,000 in the aggregate and OGX agrees to pay the initial \$100,000 under such agreements, if any. Subject to completing a Final Settlement Agreement, any third-party amounts related to the ENSPIRIT and AFFINITY studies incurred in 2015 and thereafter for services rendered from and after January 1, 2015 will be OGX’s responsibility. For clarity, notwithstanding anything else in this Agreement or this Section (4), OGX will not be responsible for nor pay any of Teva’s internal costs related to the ENSPIRIT and
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AFFINITY studies, nor will Teva be responsible for nor pay any of OGX's internal costs related to the AFFINITY trial after January 1, 2015 or the ENSPIRIT trial. For further clarity, invoices received in 2015 for services rendered in 2014 remain Teva's responsibility, and Teva is responsible for and will pay all costs related to the ENSPIRIT and AFFINITY studies that are incurred through December 31, 2014, regardless of whether such costs are invoiced after that date. Costs incurred will be calculated on an accrual basis, consistent with Teva's current practice for calculation of development expenses for the ENSPIRIT study, which is to accrue for work performed (i.e., costs are incurred in 2014 for drugs and services actually provided in 2014). For example (and without limitation on other examples), Teva would remain responsible for:

(a) milestone payments, if any, payable after December 31, 2014 for which services have been provided (or, if partially provided, on a pro rata basis), prior to December 31, 2014.

(b) patient visits or other activities occurring on or before December 31, 2014 that are billed at a later date. By way of example, but not limitation, if a patient is halfway through treatment as of December 31, 2014, only the cost of services and drugs provided in 2014 would accrue in 2014.

In due diligence prior to execution of the Final Settlement Agreement, Teva will, upon the request of OGX, provide OGX information sufficient to permit OGX to understand Teva's accrual accounting practices with respect to the ENSPIRIT study.

- (5) Since OGX is responsible for third-party expenses incurred on and after January 1, 2015, with respect to the transfer of the ENSPIRIT study to OGX, and subject to execution of the Final Settlement Agreement, Teva shall (a) timely file any reasonable amendments requested by OGX with regulatory authorities necessary to evidence the transfer of the ENSPIRIT study, (b) timely issue any reasonable instruction letters to trial sites, DSMB members, and/or third-party service providers as reasonably requested by OGX, (c) timely transfer to OGX all relevant regulatory filings (e.g., IND), and (d) otherwise cooperate reasonably with OGX with respect to the transfer of the ENSPIRIT study to OGX. Teva will continue to pay for costs (subject to the below approval of OGX) incurred pursuant to third party agreements until the date of assignment; provided however, that from and after January 1, 2015, the Settlement Amount will be reduced by the amount of third-party costs paid by Teva following approval by OGX, which approval shall not be unreasonably withheld. Following any such assignment, in the event that a counterparty to any of these agreements (a) mistakenly invoices Teva for any expenses incurred after the date of assignment, OGX agrees to fully indemnify and hold Teva harmless for any such expenses and/or (b) mistakenly invoices OGX for any expenses incurred prior to the date of assignment, Teva agrees to fully indemnify and hold OGX harmless for any such expenses (except, as provided herein, OGX shall be responsible for the cost of services rendered from and after January 1, 2015).
- (6) As part of the Final Settlement Agreement, Teva will provide an updated ENSPIRIT forecast (similar in content to Teva's letter dated December 17, 2014 and the ENSPIRIT forecast provided on October 2, 2014, and not materially different than the forecast

provided on December 17, 2014), and Teva will provide representations and warranties to the accuracy and completeness of the information contained therein. Such representations and warranties will be to the best of Teva's knowledge following a reasonable inquiry without otherwise guaranteeing the accuracy of this information.

- (7) By the Closing Date, Teva will transfer to OGX all custirsen API and DP in Teva's possession or control (including all supporting documentation, e.g., QP release), including inventory in the possession of third parties under its control, as set forth in Exhibit B.
- (8) Concurrently with execution of the Final Settlement Agreement, the parties will exchange customary full mutual releases. Such mutual releases will terminate, without any further obligations, the Collaboration and License Agreement, except to the extent that the parties agree pursuant to the Final Settlement Agreement, upon the survival of any provisions under the Collaboration and License Agreement.
- (9) Each of Teva and OGX agrees not to make any disparaging or negative statements to any third parties about the termination of the Collaboration and License Agreement and/or the SYNERGY, ENSPIRIT and AFFINITY studies, except for (a) information that has already been disclosed publicly and (b) good faith responses to any inquiries under oath or in response to governmental inquiry. The parties agree that OGX will issue the press release attached hereto as Exhibit C within approximately four business days of the execution of this Agreement. No additional press releases or public statements (except public statements that are consistent with press releases previously approved by Teva) concerning the Collaboration and License Agreement, including its termination, will be issued by or on behalf of OGX without first obtaining the prior written approval of Teva, not to be unreasonably withheld. The parties further acknowledge that Teva does not presently anticipate issuing a press release concerning the Collaboration and License Agreement, including its termination, and that if it decides to issue such a press release it will first obtain the prior written approval of OGX, which approval shall not be unreasonably withheld.
- (10) This Agreement shall be construed and enforced in accordance with the laws of the State of New York, without reference to its conflict of law provisions. Exclusive venue for any dispute relating to this Agreement shall lie in New York and any claim relating to this Agreement shall be brought solely and exclusively in a state or federal court in New York County, New York.

DATED: December 29, 2014

[Signature Page Follows]

Exhibit C



OncoGenex to Regain Rights to Custirsen from Teva

Bothell WA and Vancouver BC, Dec. 30, 2014– OncoGenex Pharmaceuticals, Inc. (NASDAQ: OGXI) today announced that it has executed an initial agreement with Teva Pharmaceutical Industries Ltd. (NYSE: TEVA) to regain rights to custirsen, an investigational compound currently being evaluated in Phase 3 clinical development as a treatment for prostate and lung cancers. This transfer of rights would occur in connection with the termination of the collaboration agreement between OncoGenex and Teva executed in 2009.

The initial agreement reached by OncoGenex and Teva provides that, following execution of the final agreement to terminate the collaboration between the parties, OncoGenex will receive a \$27 million payment from Teva, subject to certain adjustments. In addition, OncoGenex will take over responsibility for all custirsen related expenses, including those related to the ENSPIRIT trial, as well as manufacturing and regulatory activities for custirsen programs, which are currently being managed by Teva. OncoGenex expects that the \$27 million payment from Teva will allow for the completion and final results from the AFFINITY trial, as well as continuation of the ENSPIRIT trial through the second interim futility analysis expected in the first half of 2015.

“Teva’s strategic focus has shifted away from oncology research and development. However, OncoGenex remains committed to the continued investigation of custirsen, particularly in patients who have advancing disease despite previous treatments,” said Scott Cormack, President and CEO of OncoGenex. “This agreement provides OncoGenex with greater control of custirsen’s development, including the modification of the ENSPIRIT statistical analysis plan to involve a more rigorous second interim futility analysis to be completed in the second quarter of 2015 that, if passed, would enable the trial to continue with a smaller enrollment requirement, increased confidence in success and shorter time to regulatory submission.”

The Company expects that the \$27 million payment from Teva and the Company’s current resources should enable the completion of the AFFINITY trial through data readout in late 2015/early 2016, allow for the continuation of the ENSPIRIT trial through the second interim futility analysis that is expected in the first half of 2015, and the achievement of key apatosen clinical milestones such as the completion of patient enrollment in the Borealis-2™ trial and final data from the Spruce™ and Rainier™ clinical trials.

The Company anticipates a final agreement will be executed in January 2015. Additional terms of the initial agreement with Teva can be found in the Company's Form 8-K filed today and available at www.ir.oncogenex.com.

About Custirsen

Custirsen is an experimental drug that is designed to block the production of the protein clusterin, which may play a fundamental role in cancer cell survival and treatment resistance. Clusterin is upregulated in tumor cells in response to treatment interventions such as chemotherapy, hormone ablation and radiation therapy and has been found to be overexpressed in a number of cancers, including prostate, lung, breast and bladder. Increased clusterin production has been linked to faster rates of cancer progression, treatment resistance and shorter survival duration. By inhibiting clusterin, custirsen is designed to alter tumor dynamics, slowing tumor growth and resistance to partner treatments, so that the benefits of therapy, including survival, may be extended.

As part of Phase 1 and Phase 2 clinical trials, custirsen was administered to 294 patients with various types of cancer. The majority of adverse events were mild. The most common serious adverse events (SAEs) associated with custirsen were febrile neutropenia, fever, pleural effusion, and dyspnea, with each SAE event observed in approximately 2 to 4 percent of patients. In the Phase 3 SYNERGY trial, custirsen was administered to approximately 500 men with metastatic CRPC. Adverse events observed were similar to custirsen's known adverse event profile. The most common SAEs observed in 2 percent of patients treated with custirsen, beyond those observed in the control arm, included febrile neutropenia, pneumonia, and fever. Although the SYNERGY study did not meet its primary endpoint of significantly improved overall survival (OS) in combination with first-line docetaxel, exploratory analyses showed improved OS for some men who received custirsen and who had poor prognostic scores across several risk factors, including performance status ≤ 80 .

Two important custirsen milestones were reached during the second half of 2014. The AFFINITY trial successfully completed enrollment of 635 men with metastatic castrate-resistant prostate cancer (CRPC) and the ENSPIRIT trial completed its first interim futility analysis, which included rigorous criteria in order to continue the trial. Based on this analysis, the independent data monitoring committee determined that continued enrollment in the ENSPIRIT trial was warranted.

About OncoGenex

OncoGenex is a biopharmaceutical company committed to the development and commercialization of new therapies that address treatment resistance in cancer patients. OncoGenex has a diverse oncology pipeline, with each product candidate having a distinct mechanism of action and representing a unique opportunity for cancer drug development. Custirsen is currently in Phase 3 clinical development as a treatment in men with metastatic castrate-resistant prostate cancer and in patients with advanced, unresectable non-small cell lung cancer. Apatorsen is in Phase 2 clinical development and OGX-225 is currently in pre-clinical development. More information is available at www.OncoGenex.com and at the company's Twitter account https://twitter.com/OncoGenex_IR.

OncoGenex' Forward Looking Statements

This press release contains forward-looking statements within the meaning of the "safe harbor" provisions of the Private Securities Litigation Reform Act of 1995, including, but not limited to, statements concerning the expected execution of a final agreement with Teva with respect to the termination of the collaboration agreement, the expected transfer of rights to custirsen and receipt of the expected upfront termination payment contemplated by the initial agreement, our ability to control development plans and achieve long term benefit for stockholders, our anticipated product development activities, such as expected clinical trial completion and design and statements regarding potential results from interim analysis and regarding the potential benefits and potential development of our product candidates. All statements other than statements of historical fact are statements that could be deemed forward-looking statements. These statements are based on management's current expectations and beliefs and are subject to a number of risks, uncertainties and assumptions that could cause actual results to differ materially from those described in the forward-looking statements. Such forward-looking statements are subject to risks and uncertainties, including, among others, the risk that a final agreement is not completed on the expected terms, if at all, the risk that our financial resources are not sufficient to fund our planned operations during the expected term, the risk that our product candidates will not demonstrate the hypothesized or expected benefits, the risk of delays in our expected clinical trials, the risk that new developments in the rapidly evolving cancer therapy landscape require changes in our clinical trial plans or limit the potential benefits of our product and the other factors described in our risk factors set forth in our filings with the Securities and Exchange Commission from time to time, including the Company's Annual Report on Form 10-K and Quarterly Reports on Form 10-Q. The Company undertakes no obligation to update the forward-looking statements contained herein or to reflect events or circumstances occurring after the date hereof, other than as may be required by applicable law.

Borealis-2™, Spruce™ and Rainier™ are registered trademarks of OncoGenex Pharmaceuticals, Inc.

OncoGenex Contact:**Jim DeNike**

jdenike@oncogenex.com

+1-425-686-1514

SUBSIDIARIES OF THE REGISTRANT

OncoGenex Technologies Inc., incorporated under the federal laws of Canada

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We consent to the incorporation by reference in the following Registration Statements:

- (1) Registration Statement (Form S-8 No. 333-56933) pertaining to the OncoGenex Pharmaceuticals, Inc. Incentive Stock Option, Non-qualified Stock Option and Restricted Stock Purchase Plan-1991;
- (2) Registration Statement (Form S-8 No. 333-87897) pertaining to the OncoGenex Pharmaceuticals, Inc. Incentive Stock Option, Non-qualified Stock Option and Restricted Stock Purchase Plan-1991, 1995 Stock Option Plan for Directors, Employee Stock Purchase Plan, and 1999 Non-qualified Stock Incentive Plan;
- (3) Registration Statement (Form S-8 No. 333-49892) pertaining to the OncoGenex Pharmaceuticals, Inc. 1999 Non-qualified Stock Incentive Plan and 2000 Stock Incentive Plan;
- (4) Registration Statement (Form S-8 No. 333-56704) pertaining to the OncoGenex Pharmaceuticals, Inc. 2000 Stock Incentive Plan and 401(k) Profit Sharing Plan and Trust;
- (5) Registration Statement (Form S-8 No. 333-135697) pertaining to the OncoGenex Pharmaceuticals, Inc. 2000 Stock Incentive Plan;
- (6) Registration Statement (Form S-8 No. 333-144552) pertaining to the OncoGenex Pharmaceuticals, Inc. 2007 Performance Incentive Plan and 401(k) Profit Sharing Plan and Trust;
- (7) Registration Statement (Form S-8 No. 333-153206) pertaining to the OncoGenex Technologies Inc. Amended and Restated Stock Option Plan;
- (8) Registration Statement (Form S-8 No. 333-168820) pertaining to the OncoGenex Pharmaceuticals, Inc. 2010 Performance Incentive Plan;
- (9) Registration Statement (Form S-8 No. 333-190480) pertaining to the OncoGenex Pharmaceuticals, Inc. 2010 Performance Incentive Plan;
- (10) Registration Statement (Form S-8 No. 333-197937) pertaining to the OncoGenex Pharmaceuticals, Inc. 2010 Performance Incentive Plan; and
- (11) Registration Statement (Form S-3 No. 333-184829) pertaining to the registration of securities of OncoGenex Pharmaceuticals, Inc. and in the related prospectus

of our reports dated March 26, 2015, with respect to the consolidated financial statements of OncoGenex Pharmaceuticals, Inc. and the effectiveness of internal control over financial reporting of OncoGenex Pharmaceuticals, Inc. included in this Annual Report (Form 10-K) for the year ended December 31, 2014.

Vancouver, Canada,
March 26, 2015

/s/Ernst & Young LLP
Chartered Accountants

Certification Pursuant to Rule 13a-14(a) or Rule 15d-14(a) of the Securities Exchange Act of 1934

I, Scott Cormack, certify that:

1. I have reviewed this annual report on Form 10-K of OncoGenex Pharmaceuticals, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officers and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officers and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) all significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: March 26, 2015

/s/ SCOTT CORMACK

Scott Cormack

President and Chief Executive Officer

Certification Pursuant to Rule 13a-14(a) or Rule 15d-14(a) of the Securities Exchange Act of 1934

I, John Bencich, certify that:

1. I have reviewed this annual report on Form 10-K of OncoGenex Pharmaceuticals, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officers and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officers and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) all significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: March 26, 2015

/s/ JOHN BENCICH

John Bencich
Chief Financial Officer

Certification pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002

I, Scott Cormack, President and Chief Executive Officer of OncoGenex Pharmaceuticals, Inc. (the "Company"), certify, pursuant to Rule 13a-14(b) or Rule 15d-14(b) of the Securities Exchange Act of 1934 and 18 U.S.C. Section 1350, that:

- (1) the Annual Report on Form 10-K of the Company for the year ended December 31, 2014 (the "Report") fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m or 780(d)); and
- (2) the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Dated: March 26, 2015

/s/ SCOTT CORMACK

Scott Cormack
President and Chief Executive Officer

Certification pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002

I, John Bencich, Chief Financial Officer of OncoGenex Pharmaceuticals, Inc. (the "Company"), certify, pursuant to Rule 13a-14(b) or Rule 15d-14(b) of the Securities Exchange Act of 1934 and 18 U.S.C. Section 1350, that:

- (1) the Annual Report on Form 10-K of the Company for the year ended December 31, 2014 (the "Report") fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m or 780(d)); and
- (2) the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Dated: March 26, 2015

/s/ JOHN BENCICH
John Bencich
Chief Financial Officer