

CLEVELAND BIOLABS INC
Form 10-K
March 30, 2009

United States Securities and Exchange Commission
WASHINGTON, D.C. 20549

FORM 10-K

(Mark One)

Annual Report Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934
For the fiscal year ended December 31, 2008

or

Transition Report pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934
For the transition period from _____ to _____

Commission file number 001-32954

CLEVELAND BIOLABS, INC.
(Exact name of registrant as specified in its charter)

DELAWARE
(State or other jurisdiction of
incorporation
or organization)

20-0077155
(I.R.S. Employer Identification No.)

73 High Street, Buffalo, NY 14203
(Address of principal executive offices)

(716) 849-6810
Telephone No.

Securities Registered Pursuant to Section 12(b) of the Act:

Title of each class	Name of each exchange which registered
Common Stock, par value \$0.005 per share	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 Section 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 reports), and (2) has been subject to such filing requirements for the past 90 days. 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 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. x

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 definition of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act. (Check one):

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

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

The aggregate market value of the voting and non-voting common equity held by non-affiliates, computed by reference to the price at which the common equity was last sold or the average bid and asked price of such common equity, as of the last business day of the registrant's most recently completed second fiscal quarter was \$37,767,484. There were 14,014,137 shares of common stock outstanding as of March 16, 2009.

DOCUMENTS INCORPORATED BY REFERENCE

The definitive proxy statement relating to the registrant's Annual Meeting of Stockholders, to be held on June 25, 2009, is incorporated by reference in Part III to the extent described therein.

CLEVELAND BIOLABS, INC.
 FORM 10-K
 03/30/09

Cleveland BioLabs, Inc.

Form 10-K

For the Fiscal Year Ended December 31, 2008

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FORWARD-LOOKING STATEMENTS

This Annual Report on Form 10-K contains forward-looking statements that involve risks and uncertainties. Forward-looking statements give our current expectations of forecasts of future events. All statements other than statements of current or historical fact contained in this annual report, including statements regarding our future financial position, business strategy, new products, budgets, liquidity, cash flows, projected costs, regulatory approvals or the impact of any laws or regulations applicable to us, and plans and objectives of management for future operations, are forward-looking statements. The words “anticipate,” “believe,” “continue,” “should,” “estimate,” “expect,” “i,” “may,” “plan,” “project,” “will,” and similar expressions, as they relate to us, are intended to identify forward-looking statements.

We have based these forward-looking statements on our current expectations about future events. While we believe these expectations are reasonable, such forward-looking statements are inherently subject to risks and uncertainties, many of which are beyond our control. The actual future results for Cleveland BioLabs, Inc. may differ materially from those discussed here for various reasons. When you consider these forward-looking statements, you should keep in mind these risk factors and other cautionary statements in this annual report including in Item 7 “Management’s Discussion and Analysis of Financial Condition and Results of Operations” and in Item 1A “Risk Factors.”

Given these risks and uncertainties, you are cautioned not to place undue reliance on such forward-looking statements. The forward-looking statements included in this report are made only as of the date hereof. We do not undertake and specifically decline any obligation to update any such statements or to publicly announce the results of any revisions to any of such statements to reflect future events or developments. When used in the report, unless otherwise indicated, “CBLI,” the “Company,” “we,” “our” and “us” refers to Cleveland BioLabs, Inc.

PART I

Item 1. Description of Business

GENERAL OVERVIEW

We were incorporated in Delaware and commenced business operations in June 2003 as a development-stage, biotechnology company, with a very specific and targeted focus on radiation drug discovery. We have devoted substantially all of our resources to the identification, development and commercialization of new types of drugs for protection of normal tissues from exposure to radiation and other stresses, such as toxic chemicals and cancer treatments. Our pipeline includes products from two primary families of compounds: protectans and curaxins. We are developing protectans as drug candidates that protect healthy tissues from acute stresses such as radiation, chemotherapy and ischemia (pathologies that develop as a result of blocking blood flow to a part of the body). Curaxins are being developed as anticancer agents that could act as mono-therapy drugs or in combination with other existing anticancer therapies.

On July 20, 2006, we sold 1,700,000 shares of common stock, par value \$0.005 per share, in our initial public offering at a per share price of \$6.00. After our initial public offering, our common stock was listed on the NASDAQ Capital Market under the symbol “CBLI” and on the Boston Stock Exchange under the symbol “CFB.” Our trading symbol on the Boston Stock Exchange was later changed to “CBLI.” On August 28, 2007, trading of our common stock transferred from the NASDAQ Capital Market to the NASDAQ Global Market. In September 2007, we ceased our listing on the Boston Stock Exchange. On November 28, 2008, trading of our common stock transferred from the NASDAQ Global Market back to the NASDAQ Capital Market.

TECHNOLOGY

Our development efforts are based on discoveries made in connection with the investigation of the cell-level process known as apoptosis. Apoptosis is a highly specific and tightly regulated form of cell death that can occur in response to external events such as exposure to radiation, toxic chemicals or internal stresses. Apoptosis is a major determinant of tissue damage caused by a variety of medical conditions including cerebral stroke, heart attack and acute renal failure. Conversely, apoptosis is also an important protective mechanism that allows the body to shed itself of defective cells, which otherwise can cause cancerous growth.

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Research has demonstrated that apoptosis is sometimes suppressed naturally. For example, most cancer cells develop resistance to apoptotic death caused by drugs or natural defenses of the human body. Our research is geared towards identifying the means by which apoptosis can be affected and manipulated depending on the need.

If the need is to protect healthy tissues against an external event such as exposure to radiation, we focus our research efforts on attempting to temporarily and reversibly suppress apoptosis in those healthy tissues, thereby imitating the apoptotic-resistant tendencies displayed by cancer cells. A drug with this effect would also be useful in ameliorating the toxicities of anticancer drugs and radiation that cause collateral damage to healthy tissues during cancer treatment. Because the severe toxicities of anticancer drugs and radiation often limit their dosage in cancer patients, an apoptosis suppressant drug may enable a more aggressive treatment regimen using anticancer drugs and radiation and thereby increase their effectiveness. At the present time, the primary focus of our research is on the protection of healthy tissues against external exposures resulting from military or defense activities.

On the other hand, if the need is to destroy cancerous cells, we focus our research efforts on restoring apoptotic mechanisms that are suppressed in tumors, so that those cancerous cells will once again become vulnerable to apoptotic death. In this regard, we believe that our drug candidates could have significant potential for improving, and becoming vital to, the treatment of cancer patients. At the present time, our research efforts in this area are limited as we dedicate the majority of our resources to military and defense applications.

Through our research and development, or R&D, and our strategic partnerships, we have established a technological foundation for the development of new pharmaceuticals and their rapid preclinical evaluation.

We have acquired rights to develop and commercialize the following prospective drugs:

- Protectans - modified factors of microbes and tumors that protect cells from apoptosis, and which therefore have a broad spectrum of potential applications. The potential applications include both non-medical applications such as protection from exposure to radiation, whether as a result of military or terrorist action or as a result of a nuclear accident, as well as medical applications such as reducing cancer treatment toxicities.
- Curaxins - small molecules designed to kill tumor cells by simultaneously targeting two regulators of apoptosis. Initial test results indicate that curaxins can be effective against a number of malignancies, including hormone-refractory prostate cancer, renal cell carcinoma, or RCC (a highly fatal form of kidney cancer) and soft-tissue sarcoma.

In the area of radiation protection, we have achieved high levels of protection in animal models. With respect to cancer treatment, the biology of cancer is such that there is no single drug that can be successfully used to treat 100% or even 50% of all cancer patients. This means that there likely will be a need for additional anticancer drugs for each type of cancer.

These drug candidates demonstrate the value of our scientific foundation. Based on the expedited approval process currently available for non-medical applications such as protection from exposure to radiation, our most advanced drug candidate, Protectan CBLB502, may be approved for such applications within 24 months. Another drug candidate, Curaxin CBLC102, demonstrated efficacy and safety in a Phase IIa clinical trial concluded in late 2008.

INDUSTRY

CBLI is a biotechnology, or biotech, company focused on developing cancer treatment, tissue protection and biodefense drugs. Historically, biotech was defined by newly discovered “genetic engineering” technology, which was first developed in universities and new startup biotech companies in the mid-1970s. Later, other technologies (based

on a constant flow of discoveries in the field of biology) started playing a leading role in biotech development. Medicine, and specifically drug development, is a lucrative field for use of these technologies. Large pharmaceutical, or Pharma, companies joined the biotech arena through licensing, sponsored research, and corporate agreement relationships. Today biotech is a \$296 billion industry (based on total market capitalization) and includes large companies such as Amgen, Inc. and Genentech, Inc.

The traditional biotech business model is a derivative of the long drug development process. Typical biotech companies go through the following stages:

- During the first stage, biotech companies fund their development through equity or debt financings while conducting R&D, which culminates in phased drug trials.
- During the second stage, when their lead drug candidates enter the drug trials, biotech companies may start licensing their drug candidates to Pharma companies in order to (1) generate revenue, (2) gain access to additional expertise, and (3) establish relations with Pharma companies in the market who can eventually take a leading role in distributing successful drugs.
- At the most advanced stage, biotech companies generate revenues by selling drugs or other biotech products to consumers or through alliances of equals.

The Project BioShield Act, which was signed into law in July 2004, allocated \$5.6 billion over ten years to fund the research, development and procurement of drugs, biological products or devices to treat or prevent injury from exposure to biological, chemical, radiological or nuclear agents as a result of a military, terrorist or nuclear attack. The legislation provides for a more expedited approval process by allowing for approval based on Phase I safety studies in humans and efficacy studies in two animal species (rodents and non-human primates) instead of Phase II and III human clinical trials (see Government Regulation). With the Project BioShield Act, biotech companies now have greater access to grants and contracts with the U.S. government. Several biotech companies have secured grants and contracts from the U.S. government to develop drugs and vaccines as medical countermeasures against potential terrorist attacks. For biotech companies focused on these types of drugs and vaccines, this type of funding, together with the modified Food and Drug Administration, or FDA, approval process, are major departures from the traditional biotech business model. The principal provisions of this law are to:

- Facilitate R&D efforts of biomedical countermeasures by the NIH;
- Provide for the procurement of needed countermeasures through a special reserve fund of \$5.6 billion over ten years; and
- Authorize, under limited circumstances, the emergency use of medical products that have not been approved by the FDA.

STRATEGIES AND OBJECTIVES

Our primary objective is to become a leading developer of drugs for the protection of human tissues against radiation and other stresses and for cancer treatment. Key elements of our strategy include:

Aggressively working towards the commercialization of Protectan CBLB502. Our most advanced drug candidate, Protectan CBLB502, offers the potential to protect normal tissues against exposure to radiation. Because of the potential military and defense implications of such a drug, the normally lengthy FDA approval process for these non-medical applications is substantially abbreviated resulting in a large cost savings to us. We expect to complete development of Protectan CBLB502 for these non-medical applications by the end of 2010.

Leveraging our relationship with leading research and clinical development institutions. The Cleveland Clinic Foundation, one of the top research medical facilities in the world, is one of our co-founders. In addition to providing us with drug leads and technologies, the Cleveland Clinic will share valuable expertise with us as clinical trials are performed on our drug candidates. In January 2007, we entered into a strategic research partnership with Roswell Park

Cancer Institute, or RPCI, in Buffalo, New York. This partnership will enhance the speed and efficiency of our clinical research and provide us with access to the state-of-the-art clinical development facilities of a globally recognized cancer research center.

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Utilizing governmental initiatives to target our markets. Our focus on drug candidates such as Protectan CBLB502, which has applications that have been deemed useful for military and defense purposes, provides us with a built-in market for our drug candidates. This enables us to invest less in costly retail and marketing resources. In an effort to improve our responsiveness to military and defense needs, we have established a collaborative relationship with the Armed Forces Radiobiology Research Institute.

Utilizing other strategic relationships. We have collaborative relationships with other leading organizations that enhance our drug development and marketing efforts. For example, one of our founders, with whom we maintain a strategic partnership, is ChemBridge Corporation. Known for its medicinal chemistry expertise and synthetic capabilities, ChemBridge provides valuable resources to our drug development research.

PRODUCTS IN DEVELOPMENT

Protectans

We are exploring a new natural source of factors that suppress the programmed cell death (apoptosis) response in human cells, which can be rapidly developed into therapeutic products. These inhibitors are anti-apoptotic factors developed by microorganisms of human microflora throughout millions of years of co-evolution with mammalian host. We are using the same strategy that was applied for the discovery of antibiotics, one of the biggest medical achievements of the 20th century. We have established a technological pipeline for screening of such factors, named protectans, and their rapid preclinical evaluation. Such inhibitors can be used as protection from cancer treatment side effects and antidotes against injuries induced by radiation and other stresses associated with severe pathologies (i.e., heart attack or stroke).

Fourteen families of patents have been filed over the past five years around various aspects and qualities of the protectan family of compounds. The first patent covering the method of protecting a mammal from radiation using flagellin or its derivatives, including Protectan CBLB502, was recently granted by the Eurasian Patent Organization (nine countries) and two other countries.

We spent approximately \$8,995,500 and \$11,828,423 on R&D for protectans for all applications in the fiscal years ended December 31, 2008 and December 31, 2007, respectively. From our inception to December 31, 2008, we spent approximately \$26,508,500 on R&D for protectans.

Protectan CBLB502

Protectan CBLB502 is our leading radioprotectant molecule in the protectans series. Protectan CBLB502 represents a rationally-designed derivative of the microbial protein, flagellin. Flagellin is secreted by *Salmonella typhimurium* and many other Gram-negative bacteria, and in nature, arranges itself in a hollow cylinder to form the filament in bacterial flagellum and acts as a natural activator of NF- κ B (nuclear factor-kappa B), a protein complex widely used by cells as a regulator of genes that control cell proliferation and cell survival. Thus, Protectan CBLB502 reduces injury from acute stresses by mobilizing several natural cell protective mechanisms, including inhibition of apoptosis, reduction of oxidative damage and induction of factors (cytokines) that induce protection and regeneration of stem cells in bone marrow and the intestines.

Protectan CBLB502 is a single agent anti-radiation therapy with significant survival benefits at a single dose. Animal studies indicate that Protectan CBLB502 protects mice without increasing the risk of radiation-induced cancer development. The remarkably strong radioprotective abilities of Protectan CBLB502 are the result of a combination of several mechanisms of action. Potential applications for Protectan CBLB502 include reduction of radiation therapy or chemotherapy toxicities in cancer patients, protection from Acute Radiation Syndrome (ARS) in defense scenarios, and protection from acute organ failure. Protectan CBLB502 is administered through intramuscular injection.

We spent approximately \$8,021,040 and \$10,701,175 on R&D for Protectan CBLB502 in the fiscal years ended December 31, 2008 and December 31, 2007, respectively. From our inception to December 31, 2008, we spent approximately \$23,378,126 on R&D for Protectan CBLB502.

We intend to enter into negotiations for contracts to purchase Protectan CBLB502 with various U.S. and international government agencies in the third quarter of 2009. If the U.S. government makes significant future contract awards for the supply of its emergency stockpile to our competitors, our business will be harmed and it is unlikely that we will be able to ultimately commercialize our competitive product.

Non-medical Applications

Our scientists have demonstrated that injecting Protectan CBLB502 into mice, rats and non-human primates protects them from lethal doses of total body gamma radiation. An important advantage of Protectan CBLB502, above any other radioprotectant known to us, is the ability to effectively protect not only the hematopoietic system, but also the gastrointestinal, or GI, tract, which is among the most sensitive areas of the human body to radiation. High levels of radiation, among other effects, induce moderate to severe bone marrow damage. The immune and blood stem cells are also depleted and death is caused by anemia, infection, bleeding and poor wound healing. GI damage often occurs at higher doses of radiation, and may result in death through sepsis as a result of perforation of the GI tract. Protectan CBLB502's ability to effectively protect the hematopoietic system and GI tract may make Protectan CBLB502 uniquely useful as a radioprotective antidote. Protectan CBLB502 was shown to be safe at its therapeutic doses in rodents and non-human primates. In addition, Protectan CBLB502 has proved to be a stable compound for storage purposes. It can be stored at temperatures close to freezing, room temperature or extreme heat. Manufacturing of Protectan CBLB502 is cost efficient, due to its high yield bacterial producing strain and simple purification process.

We have successfully established cGMP quality manufacturing for Protectan CBLB502 and are nearing completion of the first of two Phase I human safety studies for Protectan CBLB502 in ARS. Protectan CBLB502 is being developed under the FDA's animal efficacy rule to treat radiation injury following exposure to radiation from nuclear or radiological weapons, or from nuclear accident. This approval pathway requires demonstration of efficacy in two animal species and safety and drug metabolism testing in a representative sample of healthy human volunteers. Protectan CBLB502 has demonstrated activity as a radioprotectant in several animal species, including non-human primates. Phase I is the only stage of human testing required for approval in this indication.

The FDA gave us permission to start safety testing on humans on August 7, 2008. The first healthy volunteer in the dose escalation safety study was dosed on October 14, 2008. The initial safety study will involve single injections of Protectan CBLB502 in ascending dose groups of six healthy volunteers each. Participants in the study are being assessed for adverse side effects over two-week time period and blood samples are being obtained to assess the effects of Protectan CBLB502 on various biomarkers. The study is currently projected to be completed in spring 2009. The second safety study in a larger number of healthy volunteers is planned to start in the third quarter of 2009.

We are working towards filing a BLA for FDA approval of Protectan CBLB502 for non-medical applications by the end of 2010.

The Defense Threat Reduction Agency of the U.S. Department of Defense, or DoD, awarded us a \$1.3 million grant in March 2007, to fund "development leading to the acquisition" of Protectan CBLB502 as a radiation countermeasure, in collaboration with the Armed Forces Radiobiology Research Institute, which has also received significant independent funding for work on Protectan CBLB502.

In March 2008, the U.S. Department of Defense, or DoD, awarded us a contract valued at up to \$8.9 million through the Chemical Biological Medical Systems Joint Project Management Office Broad Agency Announcement, or BAA, for selected tasks in the advanced development of Protectan CBLB502 as a Medical Radiation Countermeasure to treat radiation injury following exposure to radiation from nuclear or radiological weapons.

On September 12, 2008, we were awarded a \$774,183 grant from the National Institute of Allergy and Infectious Diseases (NIAID) of the National Institutes of Health (NIH), to further study certain mitigating properties of Protectan CBLB502 in the context of hematopoietic damage from radiation exposure. The grant program, Medical Countermeasures to Enhance Platelet Regeneration and Increase Survival Following Radiation Exposure, is funded through the Project BioShield Act of 2004 and administered by the Department of Health and Human Services.

On September 16, 2008, the Biomedical Advanced Research and Development Authority (BARDA) of the Department of Health and Human Services (HHS) awarded us a contract under the Broad Agency Announcement titled, "Therapies for Hematopoietic Syndrome, Bone Marrow Stromal Cell Loss, and Vascular Injury Resulting from Acute Exposure to Ionizing Radiation," for selected tasks in the advanced development of Protectan CBLB502. The total contract value including all milestone-based options is \$13.3 million over a three-year period, with the first year's award of \$3.4 million. BARDA seeks to acquire developed medical countermeasures that will be clinically useful in a civilian medical emergency situation that results from or involves exposure of a large population to the effects of a nuclear detonation, a radiologic dispersive device (such as a dirty bomb), or exposure to radioactive material with or without combined injury or trauma.

Protectan CBLB502's unprecedented efficacy, unique ability to address both hematopoietic and GI damage, broad time window of use, and mitigation effects that do not require additional supportive care and set it apart from any other existing or therapies.

We spent approximately \$7,264,813 and \$9,885,776 on R&D for the non-medical applications of Protectan CBLB502 in the fiscal years ended December 31, 2008 and December 31, 2007, respectively. From our inception to December 31, 2008, we spent approximately \$21,601,196 on R&D for the non-medical applications of Protectan CBLB502.

Protectan CBLB502 is a candidate for procurement by the DoD, HHS/BARDA and other countries facing even more imminent threats. The HHS opportunity is particularly positive for us as the agency's mandate is to protect the U.S. civilian population in the event of a radiological emergency, including stockpiling radiation countermeasures for mass distribution. Our contract awards from the DoD and from BARDA emphasize the government's focus on acquiring adequate protection against nuclear and radiation threats for military and civilian populations. Upon FDA approval, our Protectan CBLB502 will be well positioned to fulfill both of these needs, with its demonstrated unprecedented efficacy and survival benefits, unique ability to address both hematopoietic and GI damage, broad window of efficacy relative to radiation exposure, and suitability for both military and civilian delivery scenarios. We believe that Protectan CBLB502 is the only radiation countermeasure with these capabilities in advanced development that can be self or buddy-administered, without the need of additional supportive care in a battlefield or civilian community setting.

Regulatory Status

Extraordinary radioprotective properties, an excellent toxicity profile, outstanding stability and cost efficient production of Protectan CBLB502 make it a primary candidate for entering formal preclinical and clinical studies. Initially, Protectan CBLB502 will be developed for non-medical purposes — as a radioprotectant antidote for the protection of people from severe doses of ionizing radiation. Our drug development strategy complies with the recently adopted FDA rules for investigational drugs that address situations such as radiation injury, where it would be unethical to conduct efficacy studies in humans. While Phase II and Phase III human clinical trials are normally required for the approval of marketing an investigational drug, under the FDA rules, Protectan CBLB502 would be considered for approval for this indication based on Phase I safety studies in humans and efficacy studies in two animal species (rodents and non-human primates). Based upon this expedited approval process, Protectan CBLB502 could be approved for non-medical applications within 24 months. Because Phase II and Phase III testing involves applying a drug candidate to a large numbers of participants who suffer from the targeted disease and condition and can last for a total of anywhere from three to six or additional years, bypassing these phases represents a significant time and cost savings in receiving FDA approval.

As part of this expedited approval process, the FDA has indicated that it intends to engage in a highly interactive review of Investigational New Drug, or IND, applications and New Drug Applications, or NDAs, and to provide for accelerated review or approval of certain medical products for counterterrorism applications, including granting eligible applications "Fast Track" approval status. The Fast Track designation ordinarily allows a product to be considered for accelerated approval through the use of surrogate endpoints to demonstrate effectiveness. As a result of these provisions, the FDA has broader authority to consider evidence of partial tumor shrinkage or other surrogate endpoints of clinical benefit in deciding on approval. This new policy is intended to facilitate the study of cancer therapies and shorten the total time required for marketing approvals. In cases where priority review is given to Fast Track applications, the applicant is permitted to submit applications on a rolling basis.

As part of the process to receive final FDA approval for Protectan CBLB502 for non-medical applications, we have completed Good Manufacturing Practices compliant (cGMP) manufacturing of Protectan CBLB502. The yields from the process and the purity of the final product exceeded our expectations. We were able to develop a complicated, high-yield manufacturing process for CBLB502 and were able to prototype the process and resolve multiple

challenges during the industrial development. We currently have drug substance corresponding to several hundred thousand projected human doses, or potentially many more, depending on the final therapeutic dose to be used, which will be determined through our Phase I safety trial. The process we developed gives us the ability to manufacture up to five million estimated doses within a year without any additional scale-up; and if necessary, scale-up could be implemented relatively easily.

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Prior to our receiving final FDA approval for Protectan CBLB502 for non-medical applications, we will need to complete several interim steps, including:

- Performing a Phase I dose-escalation human study on a small number of volunteers. We expect to complete this study in March 2009 at an approximate cost of \$1,500,000.
- Conducting pivotal animal efficacy studies with the cGMP manufactured drug candidate. We expect to complete these studies in mid 2010. At the present time, the costs of these studies cannot be approximated with any level of certainty.
- Performing a human safety study in a larger number of volunteers using the dose of Protectan CBLB502 previously shown to be safe in humans and efficacious in animals. We estimate completion of this study in late 2010 at an approximate cost of \$5,300,000 based on 500 subjects tested in four locations.
- Filing a BLA which we expect to complete in late 2010. At the present time, the costs of the filing cannot be approximated with any level of certainty.

The Project BioShield Act of 2004, which further expedites the approval of drug candidates for certain uses, is intended to bolster our nation's ability to provide protections and countermeasures against biological, chemical, radiological or nuclear agents that may be used in a military, terrorist or nuclear attack. This law also allows for the use of expedited peer review when assessing the merit of grants and contracts of up to \$1,500,000 for countermeasure research. We have been awarded a \$1,500,000 research grant pursuant to this law.

The DoD also awarded a \$1 million grant to our founding partner, the Cleveland Clinic, to conduct pre-clinical studies on Protectan CBLB502 for use in tourniquet and other ligation-reperfusion battlefield injuries where blood flow is stopped and then restored after a prolonged period of time.

Medical Applications

While our current focus remains on its military and other non-medical applications, Protectan CBLB502 has been observed to dramatically increase the efficacy of radiotherapy of experimental tumors in mice. Protectan CBLB502 appears to increase the tolerance of mice to radiation while having no effect on the radiosensitivity of tumors, thus opening the possibility of combining radiotherapy with Protectan CBLB502 treatment to improve the overall anticancer efficacy of radiotherapy. Our animal efficacy studies have demonstrated that up to 100% of mice treated with Protectan CBLB502 prior to being exposed to radiation survived without any associated signs of toxicity. This compares to a 100% mortality rate in the animal group that received a placebo drug.

Specifically, Protectan CBLB502 has demonstrated the ability to reduce the toxicities of a chemotherapeutic drug, cisplatin (Platinol), broadly used for the treatment of ovarian, endometrial, head and neck, lung, stomach and other types of cancer in animal models. Cisplatin treatment was used in the study as an example of chemotherapy-associated toxicity. Cisplatin injected at toxic doses is known to induce myelosuppression (suppression of bone marrow) and nephrotoxicity (kidney damage).

The prospect of increasing patients' tolerance to chemotherapeutic drugs and optimizing treatment regimens would be a significant paradigm shift in cancer treatment. It is estimated that approximately 40% of the roughly \$50 billion annually spent on cancer treatment represents supportive care addressing toxicities of various treatments, including chemotherapy.

Consistent with this strategy, we plan to initiate a Phase I/II study for Protectan CBLB502 in head and neck cancer patients in mid-2009. The endpoint of the study will be the reduction of toxicities of radiation and chemotherapy, such

as mucositis (a painful inflammation and ulceration of oral mucosa causing difficulties with speaking and eating). Mucositis weakens the patient by not allowing for the oral intake of nutrients and fluids and forces the temporary suspension of radiotherapy and chemotherapy until the tissues of the mouth and throat have healed. Due to the ability of head and neck cancer cells to regrow during periods of interrupted treatment, any interruption in radiotherapy should be avoided. Since the main cause of treatment interruptions in radiotherapy or combinations of chemotherapy and radiotherapy treatment regimens of head and neck cancer is acute mucositis, the ability to prevent mucositis, and therefore, interruptions in treatment, could potentially result in better outcomes for patients with cancers of the head and neck.

In other studies, we have demonstrated the potential of Protectan CBLB502 to be applicable to ischemic conditions. Our researchers, in collaboration with investigators from Cleveland Clinic, have demonstrated that a single injection of Protectan CBLB502 effectively prevents acute renal failure and subsequent death in a mouse model of ischemia-reperfusion renal injury.

Moreover, studies funded by a grant from the DoD and conducted at the Cleveland Clinic, have demonstrated Protectan CBLB502's ability to accelerate limb recovery in an animal model of tourniquet-mediated injury simulating the situation occurring in human. It has been demonstrated that injection of Protectan CBLB502 within 30 minutes of tourniquet removal leads to a marked reduction in the severity of injury, including reductions in tissue edema, pro-inflammatory cytokine production and leukocyte infiltration leading to accelerated recovery of limb function.

In contrast to the non-medical applications of CBLB502, the use of Protectan CBLB502 to ameliorate the side effects of radiation treatment and anticancer drugs will be subject to the full FDA approval process.

In order for us to receive final FDA approval for Protectan CBLB502 for medical applications, we will need to complete various tasks, including:

- Submitting an amendment to our CBLB502 IND application and receiving allowance from the FDA. We cannot estimate with any certainty when the FDA may allow the application. We expect to submit the amendment upon the receipt of dedicated federal funding. We estimate that the approximate cost of filing will be less than \$100,000.
- Performing a Phase I/II human efficacy study on a small number of cancer patients. We expect to complete this study two years from the receipt of allowance from the FDA of the IND amendment at an approximate cost of \$1,500,000.
- Performing an additional Phase II efficacy study on a larger number of cancer patients. At the present time, the costs and the scope of this study cannot be approximated with any level of certainty.
- Performing a Phase III human clinical study on a large number of cancer patients and filing a BLA with the FDA. At the present time, the costs and the scope of these steps cannot be approximated with any level of certainty.

We spent approximately \$756,227 and \$815,399 on R&D for the medical applications of Protectan CBLB502 in the fiscal years ended December 31, 2008 and December 31, 2007, respectively. From our inception to December 31, 2008, we spent approximately \$1,776,929 on R&D for the medical applications of Protectan CBLB502.

Protectan CBLB612

While the bulk of our R&D has focused on Protection CBLB502, we have conducted some preliminary research into a compound derived from the same family and which we refer to as Protectan CBLB612. Protectan CBLB612 is a modified lipopeptide mycoplasma that acts as a powerful stimulator and mobilizer of hematopoietic (bone marrow/blood production) stem cells, or HSC, to peripheral blood. Potential applications for Protectan CBLB612 include accelerated hematopoietic recovery during chemotherapy and during donor preparation for bone marrow transplantation.

Our research indicates that Protectan CBLB612 is not only a potent stimulator of bone marrow stem cells, but also causes their mobilization and proliferation throughout the blood. A single administration of Protectan CBLB612 resulted in a three-fold increase in the number of progenitor stem cells in mouse bone marrow within 24 hours after administration. Furthermore, the number of these stem cells in peripheral blood was increased ten-fold within four days of administration.

Protectan CBLB612 was also found to be highly efficacious in stimulating proliferation and mobilization of hematopoietic stem cells into peripheral blood in a primate model (Rhesus macaques). A single injection of Protectan CBLB612 in Rhesus macaques resulted in a 20-fold increase of hematopoietic progenitor cells in blood. At the peak of the effect (48-72 hours post-injection) the proportion of free-floating CD34+ cells in the total white blood cell count reached 30% (compared with 1.5% in normal blood). CD34 is a molecule present on certain cells within the human body. Cells expressing CD34, otherwise known as CD34+ cells, are normally found in the umbilical cord and bone marrow as hematopoietic cells.

This discovery opens a new and innovative way for us to address a broad spectrum of human diseases, some of which currently lack effective treatment. Direct comparisons of Protectan CBLB612 and the market leading drug used for stimulation of blood regeneration, G-CSF (Neupogen®, Amgen, Inc., Thousand Oaks, California), demonstrated a stronger efficacy of Protectan CBLB612 as a propagator and mobilizer of HSC in peripheral blood.

Protectan CBLB612's strength as a stem cell stimulator was further demonstrated by the outcome of its combined use with G-CSF and Mozibil (AMD3100) (a recently FDA approved stem cell mobilizer from Genzyme Corporation (Cambridge, Massachusetts)), where the addition of Protectan CBLB612 resulted in eight to ten times higher yields of HSC in peripheral blood in comparison with the standard protocol.

In addition to efficacy in stimulation and mobilization of stem cells, Protectan CBLB612 was found to be highly effective in an animal bone marrow stem cell transplantation model. Blood from healthy mice treated by Protectan CBLB612 was transplanted into mice that received a lethal dose of radiation that killed hematopoietic (bone marrow/blood production) stem cells. A small amount of blood from the Protectan CBLB612 treated mice successfully rescued the mice with radiation-induced bone marrow stem cell deficiency. 100% of the deficient mice transplanted with blood from CBLB612 treated mice survived past the 60-day mark, while 85% of the untreated deficient mice died within the first three weeks of the experiment. The 60-day mark is considered to be the critical point in defining the presence of long-term, adult bone marrow stem cells, which are capable of completely restoring lost or injured bone marrow function. The rescuing effect of the peripheral blood of the treated mice was equivalent to that of conventional bone marrow transplantation.

Adult hematological bone marrow stem cell transplantation is currently used for hematological disorders (malignant and non-malignant), as well as some non-hematological diseases, such as breast cancer, testicular cancer, neuroblastoma, ovarian cancer, Severe Combined Immune Deficiency (SCID), Wiskott-Aldrich syndrome, and Chediak-Higashi syndrome.

With efficacy and non-GLP safety already studied in mice and monkeys, Protectan CBLB612 entered formal pre-clinical safety and manufacturing development in February 2008. Further development of CBLB612 will continue upon achieving sufficient funding for completing pre-clinical development and a Phase I study. Development of Protectan CBLB612 has been supported by a grant from the Defense Advanced Research Projects Agency of the Department of Defense.

In order for us to receive final FDA approval for Protectan CBLB612, we need to complete several interim steps, including:

- Conducting pivotal animal safety studies with GMP-manufactured CBLB612.
- Submitting an IND application and receiving approval from the FDA;
- Performing a Phase I dose-escalation human study;
- Performing a Phase II and Phase III human efficacy study using the dose of CBLB612 selected from the previous studies previously shown to be safe in humans and efficacious in animals; and
- Filing a New Drug Application.

At this time, none of the above costs are reasonably estimatable.

We spent approximately \$974,459 and \$1,127,248 on R&D for Protectan CBLB612 in the fiscal years ended December 31, 2008 and December 31, 2007, respectively. From our inception to December 31, 2008, we spent

approximately \$3,130,374 on R&D for Protectan CBLB612. Further development and extensive testing will be required to determine its technical feasibility and commercial viability.

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Curaxins

Curaxins are small molecules that destroy tumor cells by simultaneously targeting two regulators of apoptosis. Our initial test results indicate that curaxins can be effective against a number of malignancies, including renal cell carcinoma, or RCC, soft-tissue sarcoma, and hormone-refractory prostate cancer.

The original focus of our drug development program was to develop drugs to treat one of the most treatment-resistant types of cancer, RCC. Unlike many cancer types that frequently mutate or delete p53, one of the major tumor suppressor genes, RCC belongs to a rare category of cancers that typically maintain a wild type form of this protein. Nevertheless, RCC cells are resistant to apoptosis, suggesting that in spite of its normal structure, p53 is functionally disabled. The work of our founders has shown that p53 function is indeed inhibited in RCC by an unknown dominant factor. We have established a drug discovery program to identify small molecules that selectively destroy tumor cells by restoring the normal function to functionally impaired p53 in RCC. This program yielded a series of chemicals with the desirable properties named curaxins (CBLC100 series). We have isolated three chemical classes of curaxins. One of them includes relatives of 9-aminoacridine, the compound that is the core structure of many existing drugs. Pre-existing information about this compound has allowed us to bypass the preclinical development and Phase I studies and bring one of our drug candidates into Phase IIa clinical trials, saving years of R&D efforts and improving the probability of success.

One of the most important outcomes of this drug discovery program was the identification of the mechanism by which curaxins deactivate NF- κ B. This mechanism of action makes curaxins potent inhibitors of the production and the activity of NF- κ B not only in its stimulated form, but also in its basal form. The level of active NF- κ B is usually also increased in cancer cells. Moreover, due to curaxin-dependent functional conversion of NF- κ B-DNA complexes, the cells with the highest basal or induced NF- κ B activity are supposed to be the most significantly affected by curaxins. Clearly, this paradoxical activity makes deactivation of NF- κ B by curaxins more advantageous compared to conventional strategies targeting NF- κ B activators.

The discovery of the mechanism of action of curaxins allowed us to predict and later experimentally verify that curaxins could be used for treatment of multiple forms of cancers, including hormone-refractory prostate cancer, hepatocellular carcinoma, multiple myeloma, acute lymphocytic leukemia, acute myeloid leukemia, soft-tissue sarcomas and several others.

A significant milestone in the curaxin program was a recently achieved breakthrough in deciphering the finer details of the mechanism of action of these compounds. Successful identification of the exact cellular moiety that binds to curaxins has provided a mechanistic explanation for the unprecedented ability of these compounds to simultaneously target several signal transduction pathways.

This new mechanistic knowledge enabled us to discover additional advantages of curaxins and to rationally design treatment regimens and drug combinations, which have since been validated in experimental models. In addition, this understanding further strengthens our intellectual property position for this exciting class of principally new anticancer drugs.

We spent approximately \$3,233,872 and \$4,708,773 on R&D for curaxins overall in the fiscal years ended December 31, 2008 and December 31, 2007, respectively. From our inception to December 31, 2008, we spent approximately \$11,641,592 on R&D for curaxins.

Curaxin CBLC102

One of the curaxins from the 9-aminoacridine group is a long-known, anti-infective compound known as quinacrine, which we refer to as Curaxin CBLC102. It has been used for over 40 years to treat malaria, osteoarthritis and

autoimmune disorders. However, we have discovered new mechanisms of action for quinacrine in the area of apoptosis. Through assay testing performed at Dr. Andrei Gudkov's laboratories at the Cleveland Clinic beginning in 2002, which included testing in a variety of human tumor-derived cell lines representing cancers of different tissue origin (including RCC, sarcomas, prostate, breast and colon carcinomas), we have observed that Curaxin CBLC102 behaves as a potent NF-kB suppressor and activator of p53 in these types of cancer cells. It has favorable pharmacological and toxicological profiles and demonstrates the anticancer effect in transplants of human cancer cells into primates.

We have applied for a patent covering the use of Curaxin CBLC102 as an anticancer agent.

We have an agreement with Regis Technologies, Inc., a GMP manufacturer, to produce sufficient quantities of Curaxin CBLC102 according to the process previously used for the production of this drug when it was in common use.

We launched a Phase II study with CBLC102 in January 2007 to provide proof of safety and of anti-neoplastic activity in cancer patients and establish a foundation for clinical trials of our new proprietary curaxin molecules, which have been designed and optimized for maximum anticancer effects, as well as for additional treatment regimens based on ongoing research into the precise molecular mechanisms of action of curaxins.

Thirty-one patients were enrolled in a Phase II study of CBLC102 as a monotherapy in late stage, hormone-refractory taxane-resistant prostate cancer. All patients had previously received hormonal treatment for advanced prostate cancer and 28 of the 31 had also previously received chemotherapy. One patient had a partial response, while 50% of the patients exhibited a decrease or stabilization in PSA velocity, a measure of the speed of prostate cancer progression. CBLC102 was well tolerated and there were no serious adverse events attributed to the drug. The trial demonstrated indications of activity and a remarkable safety profile in one of the most difficult groups of cancer patients.

The indications of activity and remarkable safety demonstrated in the CBLC102 Phase II trial, in conjunction with new mechanistic discoveries, point to additional potential treatment paradigms including combination therapies with existing drugs or prospective use as a cancer prevention agent. Additional potential uses for CBLC102 will be explored in conjunction with our strategic partners at Roswell Park Cancer Institute.

We anticipate that additional clinical efficacy studies will be required before we are able to apply for FDA approval. Because of the uncertainties of the scope of the remaining clinical studies, we cannot currently estimate when any development efforts may be completed or the cost of completion. Nor can we estimate when we may realize any cash flow from the development of Curaxin CBLC102.

We spent approximately \$1,741,194 and \$2,712,521 on R&D for Curaxin CBLC102 in the fiscal years ended December 31, 2008 and December 31, 2007, respectively. From our inception to December 31, 2008, we spent approximately \$6,466,483 on R&D for Curaxin CBLC102.

Other Curaxins

As mentioned above, screening of the chemical library for compounds capable of restoring normal function to wild type p53 in the context of RCC yielded three chemical classes of compounds. Generation of focused chemical libraries around the hits from one of these classes and their structure-activity optimization brought about a new generation of curaxins. As the part of this program performed in the partnership with ChemBridge Corporation, more than 800 proprietary compounds were screened for p53 activation, efficacy in animal tumor models, selective toxicity and metabolic stability in the presence of rat and human microsomes. The most active compounds were efficacious in preventing tumor growth in models for colon carcinoma, melanoma, ovarian cancer, RCC, and breast cancer.

As a result of this comprehensive hit-to-lead optimization program, we have developed CBLC137, which is a drug candidate with proprietary composition of matter intellectual property protection belonging to our next generation of highly improved curaxins. CBLC137 has demonstrated reliable anti-tumor effects in animal models of colon, breast, renal and prostate cancers. CBLC137 has favorable pharmacological characteristics, is suitable for oral administration and demonstrates a complete lack of genotoxicity. It shares all of the positive aspects of CBLC102, but significantly exceeds the former compound's activity and efficacy in preclinical tumor models. CBLC137 is currently undergoing manufacturing and preclinical toxicology studies in preparation for clinic trials in 2010.

We spent approximately \$1,492,678 and \$1,996,252 on R&D for other curaxins in the fiscal years ended December 31, 2008 and December 31, 2007, respectively. From our inception to December 31, 2008, we spent approximately \$5,175,110 on R&D for other curaxins.

CBLC137 is at a very early stage of its development and, as a result, it is premature to estimate when any development may be completed, the cost of development or when any cash flow could be realized from development.

COLLABORATIVE RESEARCH AGREEMENTS

Cleveland Clinic Foundation

We have a unique opportunity to accelerate our development by utilizing intellectual property, drug leads, new research technologies, technical know-how and original scientific concepts derived from 25 years of research achievements relevant to cancer by Dr. Andrei Gudkov and his research team while at the Cleveland Clinic. Pursuant to an agreement we entered into with the Cleveland Clinic effective as of July 1, 2004, we were granted an exclusive license to the Cleveland Clinic's research base underlying our therapeutic platform (the CBLC100, CBLB500 and CBLB600 series). In consideration for obtaining this exclusive license, we agreed to:

- Issue to the Cleveland Clinic 1,341,000 shares of common stock;
- Make certain milestone payments (ranging from \$50,000 to \$4,000,000, depending on the type of drug and the stage of such drug's development);
 - Make royalty payments (calculated as a percentage of the net sales of the drugs ranging from 1-2%); and
- Make sublicense royalty payments (calculated as a percentage of the royalties received from the sublicenses ranging from 5-35%).

The schedule of milestone payments is as follows:

File IND application for Protectan CBLB502 (completed February 2008)	\$ 50,000
Complete Phase I studies for Protectan CBLB502	\$ 100,000
File NDA application for Protectan CBLB502	\$ 350,000
Receive regulatory approval to sell Protectan CBLB502	\$ 1,000,000
File IND application for Curaxin CBLC102 (completed May 2006)	\$ 50,000
Commence Phase II clinical trials for Curaxin CBLC102 (completed January 2007)	\$ 250,000
Commence Phase III clinical trials for Curaxin CBLC102	\$ 700,000
File NDA application for Curaxin CBLC102	\$ 1,500,000
Receive regulatory approval to sell Curaxin CBLC102	\$ 4,000,000

Under this license agreement, we may exclusively license additional technologies discovered by Dr. Gudkov in this field by providing the Cleveland Clinic with notice within 60 days after receiving an invention disclosure report from the Cleveland Clinic relating to any such additional technologies. We believe that this relationship will prove valuable, not only for the purposes of developing the discoveries of Dr. Gudkov and his colleagues, but also as a source of additional new technologies. We also expect that the Cleveland Clinic will play a critical role in validating therapeutic concepts and in conducting trials. The Cleveland Clinic may terminate the license upon a material breach by us, as specified in the agreement. However, we may avoid such termination if we cure the breach within 90 days of receipt of a termination notice.

In August 2004, we entered into a cooperative research and development agreement, or CRADA, with (i) the Uniformed Services University of the Health Sciences, which includes the Armed Forces Radiobiology Research Institute, or AFRRRI, (ii) the Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc., and (iii) the Cleveland Clinic, to evaluate one of our radioprotective drug candidates and its effects on intracellular and extracellular signaling pathways. As a collaborator under this agreement, we are able to use the laboratories of the Armed Forces Radiobiology Research Institute to evaluate Protectan CBLB502 and its effects on intracellular and

extracellular signaling pathways in order to improve countermeasures to lethal doses of radiation. Under the terms of the agreement, all parties are financially responsible for their own expenses related to the agreement. The agreement has a five-year term, but may be unilaterally terminated by any party upon 30 days prior written notice with or without cause.

In February 2008, the terms of the agreement were extended by an additional two years expiring August 15, 2010 and an additional scope of the research to be performed under the CRADA has been added. As the part of the extended research plan AFRRI will perform additional experiments in non-human primates to evaluate radioprotection efficacy of Protectan CBLB502 and perform analysis of hematopoietic stem cell mobilization by Protectan CBLB612.

Roswell Park Cancer Institute

In January 2007, we entered into a strategic research partnership with Roswell Park Cancer Institute, or RPCI, to develop our anticancer and radioprotectant drug candidates.

RPCI, founded in 1898, is a world-renowned cancer research hospital and the nation's first cancer research, treatment and education center. RPCI is a member of the prestigious National Comprehensive Cancer Network, an alliance of the nation's leading cancer centers, and is one of only ten free-standing cancer centers in the nation.

RPCI and various agencies of the state of New York will provide us with up to \$5 million of grant and other funding. We established a major research/clinical facility at the RPCI campus in Buffalo, New York, which has become the foundation for several of our advanced research and clinical trials.

Our partnership with RPCI will enhance the speed and efficiency of our clinical research, and will provide us with access to state-of-the-art clinical development facilities in partnership with a globally recognized cancer research center. We believe that our proprietary technology, combined with the assistance of RPCI, and our continuing strong relationship with the Cleveland Clinic, will position us to become a leading oncology company. A key element of our long-term business strategy is to partner with world-class institutions to aid us in accelerating our drug development timeline. We believe that our firm alliances with both RPCI and the Cleveland Clinic provide us with a significant competitive advantage.

ChemBridge Corporation

Another vital component of our drug development capabilities is our strategic partnership with ChemBridge Corporation, an established leader in combinatorial chemistry and in the manufacture of diverse chemical libraries.

On April 27, 2004, we entered into a library access agreement with ChemBridge that, in exchange for shares of our common stock and warrants, provides us with continual access to a chemical library of 214,000 compounds. Under the library access agreement, we have also agreed to collaborate with ChemBridge in the future on two optimization projects, wherein ChemBridge will have the responsibility of providing the chemistry compounds for the project and we will have the responsibility of providing the pharmacological/biological compounds. Upon providing ChemBridge with our data after at least two positive repeat screening assays, which have been confirmed in at least one additional functional assay, ChemBridge will have the option to select such compound as one of the two optimization projects. ChemBridge will retain a 50% ownership interest in two lead compounds selected by ChemBridge and all derivative compounds thereof. The parties will jointly manage the development and commercialization of any compounds arising from an optimization project. The library access agreement does not have a specified term or any termination provisions.

We have a strong working relationship with ChemBridge. As is December 31, 2008 we have fully completed one joint hit-to-lead optimization program with ChemBridge. As a result of this program, we have developed CBLC137, which is a drug candidate belonging to our next generation of highly improved curaxins with proprietary, composition of matter, intellectual property protection. CBLC137 has demonstrated reliable anti-tumor effects in animal models of colon, breast, renal and prostate cancers. CBLC137 has favorable pharmacological characteristics, is suitable for oral administration and demonstrates a complete lack of genotoxicity. It shares all of the positive aspects of CBLC102, but significantly exceeds that compound's activity and efficacy in preclinical tumor models.

PATENTS

As a result of the license agreement with the Cleveland Clinic, we have filed, on the Cleveland Clinic's behalf, thirteen patent applications covering new classes of anticancer and radiation-protecting compounds, their utility and mode of action.

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Our intellectual property platform is based primarily on these thirteen patent applications exclusively licensed to us by the Cleveland Clinic and five patent applications, which we have filed and own exclusively.

The aforementioned thirteen patent applications licensed from the Cleveland Clinic are as follows:

- Methods of Inhibiting Apoptosis Using Latent TFG β ;
- Methods of Identifying Modulators of Apoptosis From Parasites and Uses Thereof;
- Methods of Inhibiting Apoptosis Using Inducers of NF-kB;
- Methods of Protecting Against Radiation Using Inducers of NF-kB;
- Methods of Protecting Against Radiation Using Flagellin;
- Small Molecules Inhibitors of MRP1 and Other Multidrug Transporters;
 - Flagellin Related Polypeptides and Uses Thereof;
 - Modulation of Apoptosis Using Aminoacridines;
 - Modulation of Immune Responses;
 - Methods of Protecting Against Apoptosis Using Lipopeptides;
 - Modulation of Cell Growth;
 - Mitochondrial Cytochrome B; and
 - Methods of Reducing the Effects of Reperfusion.

The aforementioned five patent applications, which we filed, are as follows:

- Modulation of Androgen Receptor for Treatment of Prostate Cancer;
- Method of Increasing Hematopoietic Stem Cells;
- Method for Reducing the Effects of Chemotherapy Using Flagellin Related Polypeptides;
 - Modulation of Heat Shock Response; and
- Carbozole Compounds and Therapeutic Uses of the Compounds.

In 2008, four patent applications were introduced and filed for approval with the U.S. Patent Office. One of the patent applications is licensed from the Cleveland Clinic and three are licensed to us.

We review our patent applications on a continuing basis. In 2008, two patent applications were abandoned. The first was an application licensed from the Cleveland Clinic titled 'Activation of p53 and Inhibition of NF-kB for Cancer Treatment'. This patent application was abandoned due to developing another Curaxin for the same application. The second patent application was licensed to us and titled 'Quinacrine Isomers'. The patent application was abandoned

due to the discovery of improved technology.

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MANUFACTURING

We do not intend to establish or operate facilities to manufacture our drug candidates, and therefore will be dependent upon third parties to do so. As we develop new products or increase sales of any existing product, we must establish and maintain relationships with manufacturers to produce and package sufficient supplies of our finished pharmaceutical products. We have established a relationship with SynCo Bio Partners B.V. or SynCo, a leading biopharmaceutical manufacturer, to produce Protectan CBLB502 under cGMP specifications, and have completed an agreement to produce sufficient amounts for clinical trials and a commercial launch. As discussed above, the yields from the established manufacturing process at SynCo have been very high and the current process is expected to handle up to several million estimated human doses per year without need for any additional scale up. For CBLC102, we have contracted with Regis Technologies, Inc. to manufacture sufficient amounts for clinical trials.

Reliance on third party manufacturing presents several risks, however, including the following:

- Delays in the delivery of quantities needed for multiple clinical trials or failure to manufacture such quantities to our specifications, either of which could cause delays in clinical trials, regulatory submissions or commercialization of our drug candidates;
- Inability to fulfill our needs in the event market demand for our drug candidates suddenly increases, which may require us to seek new manufacturing arrangements, which, in turn, could be expensive and time consuming; and
 - Ongoing inspections by the FDA or other regulators and other regulatory authorities for compliance with rules, regulations and standards, the failure to comply with which may subject us to, among other things, product seizures, recalls, fines, injunctions, suspensions or revocations of marketing licenses, operating restrictions and criminal prosecution.

GOVERNMENT REGULATION

The R&D, manufacturing and marketing of drug candidates are subject to regulation, primarily by the FDA in the U.S. and by comparable authorities in other countries. These national agencies and other federal, state, local and foreign entities regulate, among other things, R&D activities (including testing in primates and in humans) and the testing, manufacturing, handling, labeling, storage, record keeping, approval, advertising and promotion of the products that we are developing. Noncompliance with applicable requirements can result in various adverse consequences, including approval delays or refusals to approve drug licenses or other applications, suspension or termination of clinical investigations, revocation of approvals previously granted, fines, criminal prosecution, recalls or seizures of products, injunctions against shipping drugs, and total or partial suspension of production and/or refusal to allow a company to enter into governmental supply contracts.

The process of obtaining FDA approval for a new drug may take many years and generally involves the expenditure of substantial resources. The steps required before a new drug can be produced and marketed for human use include clinical trials and the approval of an NDA and typically proceed as follows:

Preclinical Testing

In the preclinical phase of development, the promising compound is subjected to extensive laboratory and animal testing to determine if the compound is biologically active and safe.

Investigational New Drug (IND)

Before human tests can start, the drug sponsor must file an IND application with the FDA, showing how the drug is made and the results of animal testing. IND status allows initiation of clinical investigation within 30 days of filing if the FDA does not respond with questions during the 30-day period.

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Human Clinical Testing

The human clinical testing program usually involves three phases that generally are conducted sequentially, but which, particularly in the case of anti-cancer and other life-saving drugs, may overlap or be combined. Clinical trials are conducted in accordance with protocols that detail the objectives of the study, the parameters to be used to monitor safety and the efficacy criteria to be evaluated. Each protocol is submitted to the FDA as part of the IND filing. Each clinical study is conducted under the direction of an independent Institutional Review Board, or IRB, for each institution at which the study will be conducted. The IRB will consider, among other things, all existing pharmacology and toxicology information on the product, ethical factors, the risk to human subjects and the potential benefits of therapy relative to risk.

In Phase I clinical trials, studies usually are conducted on healthy volunteers or, in the case of certain terminal illnesses such as advanced prostate cancer, patients with the disease who have failed to respond to other treatment, to determine the maximum tolerated dose, side effects and pharmacokinetics of a product. Phase II studies are conducted on a small number of patients having a specific disease to determine initial efficacy in humans for that specific disease, the most effective doses and schedules of administration, and possible adverse effects and safety risks. Phase II/III differs from Phase II in that the trials involved may include more patients and, at the sole discretion of the FDA, be considered the “pivotal” trials, or trials that will form the basis for FDA approval. Phase III normally involves the pivotal trials of a drug, consisting of wide-scale studies on patients with the same disease, in order to evaluate the overall benefits and risks of the drug for the treated disease compared with other available therapies. The FDA continually reviews the clinical trial plans and results, and may suggest design changes or may discontinue the trials at any time if significant safety or other issues arise.

As described above, for several of the product opportunities we are pursuing, we may apply for approval based upon a rule adopted by the FDA in 2002, titled “Approval of New Drugs When Human Efficacy Studies Are Not Ethical or Feasible” (Part 314, Subpart I), which is also referred to as the two animal rule. Pursuant to this new rule, in situations where it would be unethical to conduct traditional Phase II and Phase III efficacy studies in humans, as is the case with countermeasures to a number of weapons of mass destruction, the FDA will review new drugs for approval on the basis of safety in humans and efficacy in relevant animal models.

New Drug Application (NDA)

Upon successful completion of Phase III clinical trials, the drug sponsor files an NDA with the FDA for approval, containing all information that has been gathered. The NDA must include the chemical composition of the drug, scientific rationale, purpose, animal and laboratory studies, results of human tests, formation and production details, and proposed labeling.

Post-Approval Regulation

Following any initial regulatory approval of any drugs we may develop, we will also be subject to continuing regulatory review, including the review of adverse experiences and clinical results that are reported after our drug candidates are made commercially available. This will include results from any post-marketing tests or vigilance required as a condition of approval. The manufacturer and manufacturing facilities we use to make any of our drug candidates will also be subject to periodic review and inspection by the FDA. The discovery of any previously unknown problems with the drug, manufacturer or facility may result in restrictions on the drug, manufacturer or facility, including withdrawal of the drug from the market. We do not have, and currently do not intend to develop, the ability to manufacture material for our clinical trials or on a commercial scale. Reliance on third-party manufacturers entails risks to which we would not be subject if we manufactured drugs ourselves, including reliance on the third-party manufacturer for regulatory compliance. Our drug promotion and advertising is also subject to regulatory requirements and continuing FDA review.

The testing and approval process is likely to require substantial time and effort, and there can be no assurance that any FDA approval will be granted on a timely basis, if at all. The approval process is affected by a number of factors, primarily the side effects of the drug (safety) and its therapeutic benefits (efficacy). Additional preclinical or clinical trials may be required during the FDA review period and may delay marketing approval. The FDA may also deny an NDA if applicable regulatory criteria are not met.

The FDA reviews the results of the clinical trials and may order the temporary or permanent discontinuation of clinical trials at any time if it believes the drug candidate exposes clinical subjects to an unacceptable health risk.

Sales outside the U.S. of products that we develop will also be subject to regulatory requirements governing human clinical trials and marketing for drugs and biological products and devices. The requirements vary widely from country to country, but typically the registration and approval process takes several years and requires significant resources. In most cases, even if the FDA has not approved a product for sale in the U.S., the product may be exported to any country if it complies with the laws of that country and has valid marketing authorization by the appropriate authority. There are specific FDA regulations that govern this process.

We also are subject to the following risks and obligations relating to government regulation, among others:

- The FDA or foreign regulators may interpret data from pre-clinical testing and clinical trials differently than we interpret them;
- If regulatory approval of a product is granted, the approval may be limited to specific indications or limited with respect to its distribution. In addition, many foreign countries control pricing and coverage under their respective national social security systems;
 - The FDA or foreign regulators may not approve our manufacturing processes or manufacturing facilities;
 - The FDA or foreign regulators may change their approval policies or adopt new regulations;
- Even if regulatory approval for any product is obtained, the marketing license will be subject to continual review, and newly discovered or developed safety or effectiveness data may result in suspension or revocation of the marketing license;
- If regulatory approval of the product candidate is granted, the marketing of that product would be subject to adverse event reporting requirements and a general prohibition against promoting products for unapproved or “off-label” uses;
- In some foreign countries, we may be subject to official release requirements that require each batch of the product we produce to be officially released by regulatory authorities prior to its distribution by us; and
- We will be subject to continual regulatory review and periodic inspection and approval of manufacturing modifications, including compliance with current GMP regulations.

EMPLOYEES

As of March 16, 2009, we had 33 employees, 31 of whom were full-time employees.

ENVIRONMENT

We have made, and will continue to make, expenditures for environmental compliance and protection. Expenditures for compliance with environmental laws and regulations have not had, and are not expected to have, a material effect on our capital expenditures, results of operations, or competitive position.

COMPETITION

Non-Medical Applications

In the area of radiation-protective antidotes, various companies, such as RxBio, Inc., Exponential Biotherapies Inc., Osiris Therapeutics, Inc., ImmuneRegen BioSciences, Inc., Onconova Therapeutics, Inc and Humanetics Corporation are developing biopharmaceutical products that potentially directly compete with our non-medical application drug

candidates even though their approaches to such treatment are different.

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We believe that due to the global political environment, the level of development advancement is the critical factor in the marketing of an effective medical radiation countermeasure for federal agencies, such as DoD and HHS. New developments in this area are expected to continue at a rapid pace in both industry and academia.

Anticancer Applications

The arsenal of medical radiation-protectors is limited to ETHYOL™ (amifostine), sold by MedImmune, and recently acquired by AstraZeneca International. This radiation-protector is limited because of the serious side effects of the drug. Other radiation-protectors may enter the market.

Biomedical research for anticancer therapies is a large industry, with many companies, universities, research institutions and foreign government-sponsored companies competing for market share. The top ten public U.S.-based companies involved in cancer therapy have a combined market capitalization exceeding \$1 trillion. In addition, there are several hundred biotech companies who have as their mission anticancer drug development. These companies account for the approximately 150 anticancer compounds currently in drug trials. However, despite the numerous companies in this field, there is still a clear, unmet need in the anticancer drug development market.

Each of the approximately 200 types of cancer recognized by the National Cancer Institute, or NCI, has dozens of subtypes, both etiological and on a treatment basis. Due to this market segmentation, the paradigm of a one-size-fits-all, super-blockbuster approach to drug treatments does not work well in cancer therapy. Currently, even the most advanced therapeutics on the market do not provide substantial health benefits.

This suggests that innovative anticancer therapies are driven by the modest success of current therapeutics, the need for an improved understanding of the underlying science, and a shift in the treatment paradigm towards more personalized medicine. Our technology addresses this need for an improved understanding of the underlying science and implements a fundamental shift in the approach to developing anticancer therapies.

Stem Cell Mobilization

G-CSF (Neupogen® and Neulast®, Amgen, Inc., Thousand Oaks, California) is the current standard against which all other mobilization agents for stem cells are measured. This is because it has been shown to both mobilize more CD34+ stem cells and have less toxicity than any other single agent against which it has been tested to date. In a few cases, the use of G-CSF has caused deaths attributed to thrombosis (acute myocardial infarction and stroke) in sibling donors. Other side effects include pain, nausea, vomiting, diarrhea, insomnia, chills, fevers, and night sweats.

Mozobil (Genzyme Corporation (Cambridge, Massachusetts)) is a newly FDA approved drug designed to help increase the number of stem cells collected in a patient's blood before being transplanted back into the body after chemotherapy.

Sargramostim (Bayer HealthCare Pharmaceuticals Inc., Wayne, New Jersey) as a single agent is used less often today for mobilization than G-CSF, because it mobilizes somewhat less well than G-CSF and because of a relatively higher incidence of both mild and severe side effects. Erythropoietin (Amgen, Inc.), now commonly used among cancer patients undergoing chemotherapy to maintain hemoglobin in the near normal range, also has some ability to mobilize CD34+ cells.

Other Sources of Competition

In addition to the direct competition outlined above, there is potential for adverse market effects from other outside developments. For example, producing a new drug with fewer side effects reduces the need for anti-side effects therapies. Because of this, we must monitor a broad area of anticancer R&D and be ready to fine-tune our

development as needed.

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The biotechnology and biopharmaceutical industries are characterized by rapid technological developments and intense competition. This competition comes both from biotech firms and from major pharmaceutical and chemical companies. Many of these companies have substantially greater financial, marketing and human resources than we do (including, in some cases, substantially greater experience in clinical testing, manufacturing and marketing of pharmaceutical products). Our drug candidates' competitive position among other biotech and biopharmaceutical companies may be based on, among other things, patent position, product efficacy, safety, reliability, availability, patient convenience, delivery devices, and price, as well as the development and marketing of new competitive products.

We also experience competition in the development of our drug candidates from universities and other research institutions and compete with others in acquiring technology from such universities and institutions. In addition, certain of our drug candidates may be subject to competition from products developed using other technologies, some of which have completed numerous clinical trials. As a result, our actual or proposed drug candidates could become obsolete before we recoup any portion of our related R&D and commercialization expenses. However, we believe our competitive position is enhanced by our commitment to research leading to the discovery and development of new products and manufacturing methods.

Some of our competitors are actively engaged in R&D in areas where we also are developing drug candidates. The competitive marketplace for our drug candidates is significantly dependent upon the timing of entry into the market. Early entrants may have important advantages in gaining product acceptance and market share contributing to the product's eventual success and profitability. Accordingly, in some cases, the relative speed with which we can develop products, complete the testing, receive approval, and supply commercial quantities of the product to the market is vital towards establishing a strong competitive position.

Our ability to sell to the government also can be influenced by indirect competition from other providers of products and services. For instance, a major breakthrough in an unrelated area of biodefense could cause a major reallocation of government funds from radiation protection. Likewise, an outbreak or threatened outbreak of some other form of disease or condition may also cause a reallocation of funds away from the condition that Protectan CBLB502 is intended to address.

Item 1A. Risk Factors

Risks Relating to our Operations

We have a history of operating losses. We expect to continue to incur losses and may not continue as a going concern.

We have a history of losses and can provide no assurance as to future operating results. As a result of losses that will continue throughout our development stage, we may exhaust our financial resources and be unable to complete the development of our drug candidates.

We expect losses to continue for the next few years as we spend substantial additional sums on the continued R&D of proprietary drugs and technologies, and there is no certainty that we will ever become profitable as a result of these expenditures.

Our ability to become profitable depends primarily on the following factors:

- our ability to obtain approval for, and if approved, to successfully commercialize, Protectan CBLB502;
- our ability to bring to market other proprietary drugs that are progressing through our development process;
- our R&D efforts, including the timing and cost of clinical trials; and
- our ability to enter into favorable alliances with third-parties who can provide substantial capabilities in clinical development, manufacturing, regulatory affairs, sales, marketing and distribution.

Even if we successfully develop and market our drug candidates, we may not generate sufficient or sustainable revenue to achieve or sustain profitability.

We will likely require substantial additional financing in order to meet our business objectives.

Upon expiration of current capital reserves or sooner if we experience unanticipated cash requirements, we may be required to issue additional equity or debt securities or enter into other financial arrangements, including relationships with corporate and other partners, in order to raise substantial additional capital during the period of product development and FDA testing. Depending upon market conditions and subject to limitations imposed by the terms of our outstanding securities and contractual obligations; we may not be successful in raising sufficient additional capital for our long-term requirements. If we fail to raise sufficient additional financing, we will not be able to develop our product candidates, and may be required to reduce staff, reduce or eliminate R&D, slow the development of our product candidates, outsource or eliminate several business functions or shut down operations. Even if we are successful in raising such additional financing, we may not be able to successfully complete planned clinical trials, development, and marketing of all, or of any, of our product candidates. In such event, our business, prospects, financial condition and results of operations could be materially adversely affected.

If we lose our funding from R&D contracts and grants, we may not be able to fund future R&D and implement technological improvements, which would materially harm our financial conditions and operating results.

We receive over 90% of our revenues from grant and contract development work in connection with grants from the Department of Defense, NIH, NASA and the Defense Advanced Research Projects Agency, or DARPA.

These revenues have funded some of our personnel and other R&D costs and expenses. However, if these awards are not funded in their entirety or if new grants and contracts are not awarded in the future, our ability to fund future R&D

and implement technological improvements would be diminished, which would negatively impact our ability to compete in our industry.

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We can provide no assurance of the successful and timely development of new products.

Our products are in their developmental stage. Further development and extensive testing will be required to determine their technical feasibility and commercial viability. Our success will depend on our ability to achieve scientific and technological advances and to translate such advances into reliable, commercially competitive products on a timely basis. Products that we may develop are not likely to be commercially available for a few years. The proposed development schedules for our products may be affected by a variety of factors, including technological difficulties, proprietary technology of others, and changes in government regulation, many of which will not be within our control. Any delay in the development, introduction or marketing of our products could result either in such products being marketed at a time when their cost and performance characteristics would not be competitive in the marketplace or in the shortening of their commercial lives. In light of the long-term nature of our projects and the unproven technology involved, we may not be able to complete successfully the development or marketing of any products.

We may fail to successfully develop and commercialize our products because they:

- are found to be unsafe or ineffective in clinical trials;
- do not receive necessary approval from the FDA or foreign regulatory agencies;
- fail to conform to a changing standard of care for the diseases they seek to treat; or
- are less effective or more expensive than current or alternative treatment methods.

Product development failure can occur at any stage of clinical trials and as a result of many factors and there can be no assurance that we or our collaborators will reach our anticipated clinical targets. Even if we or our collaborators complete our clinical trials, we do not know what the long-term effects of exposure to our product candidates will be. Furthermore, our products may be used in combination with other treatments and there can be no assurance that such use will not lead to unique safety issues. Failure to complete clinical trials or to prove that our product candidates are safe and effective would have a material adverse effect on our ability to generate revenue and could require us to reduce the scope of or discontinue our operations.

Many of our projects are in the early stages of drug development which carry their own set of risks.

Projects that appear promising in the early phases of development may fail to reach the market for several reasons including:

- pre-clinical or clinical study results that may show the product to be less effective than desired (e.g., the study failed to meet its primary objectives) or to have harmful or problematic side effects;
- failure to receive the necessary regulatory approvals or a delay in receiving such approvals. Among other things, such delays may be caused by slow enrollment in clinical studies, length of time to achieve study endpoints, additional time requirements for data analysis or a NDA/BLA, preparation, discussions with the FDA, an FDA request for additional pre-clinical or clinical data or unexpected safety or manufacturing issues;
- manufacturing costs, pricing or reimbursement issues, or other factors that make the product not economical; and
- the proprietary rights of others and their competing products and technologies that may prevent the product from being commercialized.

Our R&D expenses are subject to uncertainty.

We are highly dependent on the success of our R&D efforts and, ultimately, upon regulatory approval and market acceptance of our products under development. Our ability to complete our research and development on schedule is, however, subject to a number of risks and uncertainties. Because we expect to expend substantial resources on R&D, our success depends in large part on the results as well as the costs of our R&D. R&D expenditures are uncertain and subject to much fluctuation. Factors affecting our R&D expenses include, but are not limited to:

- the number and outcome of clinical studies we are planning to conduct; for example, our R&D expenses may increase based on the number of late-stage clinical studies that we may be required to conduct;
- the number of products entering into development from late-stage research; for example, there is no guarantee that internal research efforts will succeed in generating sufficient data for us to make a positive development decision or that an external candidate will be available on terms acceptable to us, and some promising candidates may not yield sufficiently positive pre-clinical results to meet our stringent development criteria;
- in-licensing activities, including the timing and amount of related development funding or milestone payments; for example, we may enter into agreements requiring us to pay a significant up-front fee for the purchase of in-process R&D that we may record as R&D expense; or
- future levels of revenue; R&D expenses as a percentage of future potential revenues can fluctuate with the changes in future levels of revenue and lower revenues can lead to less spending on R&D efforts.

U.S. government agencies have special contracting requirements, which create additional risks.

We have entered into contracts with various U.S. government agencies. For the near future, substantially all of our revenue may be derived from government contracts and grants. In contracting with government agencies, we will be subject to various federal contract requirements. Future sales to U.S. government agencies will depend, in part, on our ability to meet these requirements, certain of which we may not be able to satisfy.

U.S. government contracts typically contain unfavorable termination provisions and are subject to audit and modification by the government at its sole discretion, which subjects us to additional risks. These risks include the ability of the U.S. government to unilaterally:

- suspend or prevent us for a set period of time from receiving new contracts or extending existing contracts based on violations or suspected violations of laws or regulations;
 - terminate our existing contracts;
 - reduce the scope and value of our existing contracts;
- audit and object to our contract-related costs and fees, including allocated indirect costs;
- control and potentially prohibit the export of our products; and
- change certain terms and conditions in our contracts.

As a U.S. government contractor, we may become subject to periodic audits and reviews. Based on the results of these audits, the U.S. government may adjust our contract-related costs and fees, including allocated indirect costs. As part of any such audit or review, the U.S. government may review the adequacy of, and our compliance with, our internal control systems and policies, including those relating to our purchasing, property, compensation and/or management information systems. In addition, if an audit or review uncovers any improper or illegal activity, we may be subject to civil and criminal penalties and administrative sanctions, including termination of our contracts, forfeiture of profits, suspension of payments, fines and suspension or prohibition from doing business with the U.S. government. We could also suffer serious harm to our reputation if allegations of impropriety were made against us. In addition, under U.S. government purchasing regulations, some of our costs, including most financing costs, amortization of intangible assets, portions of our R&D costs and some marketing expenses, may not be reimbursable or allowed under our contracts. Further, as a U.S. government contractor, we may become subject to an increased risk of investigations, criminal prosecution, civil fraud, whistleblower lawsuits and other legal actions and liabilities to which purely private sector companies are not.

We are subject to numerous risks inherent in conducting clinical trials any of which could delay or prevent us from developing or commercializing our products.

Before obtaining required regulatory approvals for the commercial sale of any of our product candidates, we must demonstrate through pre-clinical testing and clinical trials that our product candidates are safe and effective for use in humans. We must outsource our clinical trials and negotiate with third parties to conduct such trials. We are not certain that we will successfully or promptly finalize agreements for the conduct of all our clinical trials. Delay in finalizing such agreements would delay the commencement of the Phase I/II trials of Protectan CBLB502 for medical applications and Phase II/III clinical trials of Curaxin CBLC102 in multiple cancers.

Agreements with clinical investigators and medical institutions for clinical testing and with other third parties for data management services place substantial responsibilities on these parties, which could result in delays in, or termination of, our clinical trials if these parties fail to perform as expected. For example, if any of our clinical trial sites fail to comply with FDA-approved good clinical practices, we may be unable to use the data gathered at those sites. If these clinical investigators, medical institutions or other third parties do not carry out their contractual duties or obligations or fail to meet expected deadlines, or if the quality or accuracy of the clinical data they obtain is compromised due to their failure to adhere to our clinical protocols or for other reasons, our clinical trials may be extended, delayed or terminated, and we may be unable to obtain regulatory approval for or successfully commercialize Protectan CBLB502, Curaxin CBLC102 or other product candidates.

We or regulators may suspend or terminate our clinical trials for a number of reasons. We may voluntarily suspend or terminate our clinical trials if at any time we believe that they present an unacceptable risk to the patients enrolled in our clinical trials. In addition, regulatory agencies may order the temporary or permanent discontinuation of our clinical trials at any time if they believe that the clinical trials are not being conducted in accordance with applicable regulatory requirements or that they present an unacceptable safety risk to the patients enrolled in our clinical trials.

Our clinical trial operations will be subject to regulatory inspections at any time. If regulatory inspectors conclude that we or our clinical trial sites are not in compliance with applicable regulatory requirements for conducting clinical trials, we may receive reports of observations or warning letters detailing deficiencies, and we will be required to implement corrective actions. If regulatory agencies deem our responses to be inadequate, or are dissatisfied with the corrective actions that we or our clinical trial sites have implemented, our clinical trials may be temporarily or permanently discontinued, we may be fined, we or our investigators may be precluded from conducting any ongoing or any future clinical trials, the government may refuse to approve our marketing applications or allow us to manufacture or market our products or we may be criminally prosecuted.

We cannot assure that our products will obtain regulatory approval or that the results of clinical studies will be favorable.

The testing, marketing and manufacturing of any product for use in the United States will require approval from the FDA. We cannot predict with any certainty the amount of time necessary to obtain such FDA approval and whether any such approval will ultimately be granted. Preclinical and clinical trials may reveal that one or more products are ineffective or unsafe, in which event further development of such products could be seriously delayed or terminated. Moreover, obtaining approval for certain products may require testing on human subjects of substances whose effects on humans are not fully understood or documented. Delays in obtaining FDA or any other necessary regulatory approvals of any proposed product and failure to receive such approvals would have an adverse effect on the product's potential commercial success and on our business, prospects, financial condition and results of operations. In addition, it is possible that a product may be found to be ineffective or unsafe due to conditions or facts that arise after development has been completed and regulatory approvals have been obtained. In this event, we may be required to withdraw such product from the market. To the extent that our success will depend on any regulatory approvals from government authorities outside of the United States that perform roles similar to that of the FDA, uncertainties similar to those stated above will also exist.

Our collaborative relationships with third parties could cause us to expend significant resources and incur substantial business risk with no assurance of financial return.

We anticipate substantial reliance upon strategic collaborations for marketing and the commercialization of our drug candidates and we may rely even more on strategic collaborations for R&D of our other drug candidates. Our business depends on our ability to sell drugs to both government agencies and to the general pharmaceutical market. Offering our drug candidates for non-medical applications to government agencies does not require us to develop new sales, marketing or distribution capabilities beyond those already existing in the company. Selling anticancer drugs, however, does require such development. We plan to sell anticancer drugs through strategic partnerships with pharmaceutical companies. If we are unable to establish or manage such strategic collaborations on terms favorable to us in the future, our revenue and drug development may be limited. To date, we have not entered into any strategic collaborations with third parties capable of providing these services. In addition, we have not yet marketed or sold any of our drug candidates or entered into successful collaborations for these services in order to ultimately commercialize our drug candidates.

Manufacturers producing our drug candidates must follow cGMP regulations enforced by the FDA and foreign equivalents. If a manufacturer of our drug candidates does not conform to the cGMP regulations and cannot be brought up to such a standard, we will be required to find alternative manufacturers that do conform. This may be a long and difficult process, and may delay our ability to receive FDA or foreign regulatory approval of our drug candidates and cause us to fall behind on our business objectives.

Establishing strategic collaborations is difficult and time-consuming. Our discussion with potential collaborators may not lead to the establishment of collaborations on favorable terms, if at all. Potential collaborators may reject collaborations based upon their assessment of our financial, regulatory or intellectual property position. Even if we successfully establish new collaborations, these relationships may never result in the successful development or commercialization of our drug candidates or the generation of sales revenue. In addition to the extent that we enter into collaborative arrangements, our drug revenues are likely to be lower than if we directly marketed and sold any drugs that we may develop.

We rely upon licensed patents to protect our technology. We may be unable to obtain or protect such intellectual property rights, and we may be liable for infringing upon the intellectual property rights of others.

Our ability to compete effectively will depend on our ability to maintain the proprietary nature of our technologies and the proprietary technology of others with which we have entered into licensing agreements. We have exclusively licensed thirteen patent applications from the Cleveland Clinic and have filed five patent applications on our own. There can be no assurance that any of these patent applications will ultimately result in the issuance of a patent with respect to the technology owned by us or licensed to us. The patent position of pharmaceutical or biotechnology companies, including ours, is generally uncertain and involves complex legal and factual considerations. The standards that the United States Patent and Trademark Office use to grant patents are not always applied predictably or uniformly and can change. There is also no uniform, worldwide policy regarding the subject matter and scope of claims granted or allowable in pharmaceutical or biotechnology patents. Accordingly, we do not know the degree of future protection for our proprietary rights or the breadth of claims that will be allowed in any patents issued to us or to others. Further, we rely on a combination of trade secrets, know-how, technology and nondisclosure, and other contractual agreements and technical measures to protect our rights in the technology. If any trade secret, know-how or other technology not protected by a patent were to be disclosed to or independently developed by a competitor, our business and financial condition could be materially adversely affected.

We do not believe that any of the products we are currently developing infringe upon the rights of any third parties nor are they infringed upon by third parties; however, there can be no assurance that our technology will not be found in the future to infringe upon the rights of others or be infringed upon by others. In such a case, others may assert infringement claims against us, and should we be found to infringe upon their patents, or otherwise impermissibly utilize their intellectual property, we might be forced to pay damages, potentially including treble damages, if we are found to have willfully infringed on such parties' patent rights. In addition to any damages we might have to pay, we may be required to obtain licenses from the holders of this intellectual property, enter into royalty agreements, or redesign our products so as not to utilize this intellectual property, each of which may prove to be uneconomical or otherwise impossible. Conversely, we may not always be able to successfully pursue our claims against others that infringe upon our technology and the technology exclusively licensed from the Cleveland Clinic. Thus, the proprietary nature of our technology or technology licensed by us may not provide adequate protection against competitors.

Moreover, the cost to us of any litigation or other proceeding relating to our patents and other intellectual property rights, even if resolved in our favor, could be substantial, and the litigation would divert our management's efforts. Uncertainties resulting from the initiation and continuation of any litigation could limit our ability to continue our operations.

If we fail to comply with our obligations under our license agreement with the Cleveland Clinic and other parties, we could lose our ability to develop our drug candidates.

The manufacture and sale of any products developed by us may involve the use of processes, products or information, the rights to certain of which are owned by others. Although we have obtained licenses with regard to the use of the Cleveland Clinic's patent applications as described above and certain processes, products and information of others, we cannot assure you that such licenses will not be terminated or expire during critical periods, that we will be able to obtain licenses for other rights that may be important to us, or, if obtained, that such licenses will be obtained on commercially reasonable terms. If we are unable to maintain and/or obtain licenses, we may have to develop alternatives to avoid infringing upon the patents of others, potentially causing increased costs and delays in product development and introduction or preclude the development, manufacture, or sale of planned products. Additionally, we cannot assure that the patents underlying any licenses will be valid and enforceable. To the extent any products developed by us are based on licensed technology, royalty payments on the licenses will reduce our gross profit from such product sales and may render the sales of such products uneconomical.

Our current exclusive license with the Cleveland Clinic imposes various development, royalty, diligence, record keeping, insurance and other obligations on us. If we breach any of these obligations and do not cure such breaches within the 90 day period provided, the licensor may have the right to terminate the license, which could result in us being unable to develop, manufacture and sell products that are covered by the licensed technology or enable a competitor to gain access to the licensed technology. In addition, while we cannot currently determine the dollar amount of the royalty obligations we will be required to pay on sales of future products, if any, the amounts may be significant. The dollar amount of our future royalty obligations will depend on the technology and intellectual property we use in products that we successfully develop and commercialize, if any.

We may incur substantial liabilities from any product liability claims if our insurance coverage for those claims is inadequate.

We face an inherent risk of product liability exposure related to the testing of our product candidates in human clinical trials, and will face an even greater risk if the product candidates are sold commercially. An individual may bring a liability claim against us if one of the product candidates causes, or merely appears to have caused, an injury. If we cannot successfully defend ourselves against the product liability claim, we will incur substantial liabilities. Regardless of merit or eventual outcome, liability claims may result in:

- decreased demand for our product candidates;
- injury to our reputation;
- withdrawal of clinical trial participants;
- costs of related litigation;
- diversion of our management's time and attention;
- substantial monetary awards to patients or other claimants;
- loss of revenues;
- the inability to commercialize product candidates; and
- increased difficulty in raising required additional funds in the private and public capital markets.

We currently have product liability insurance and intend to expand such coverage from coverage for clinical trials to include the sale of commercial products if marketing approval is obtained for any of our product candidates. However, insurance coverage is increasingly expensive. We may not be able to maintain insurance coverage that will be adequate to satisfy any liability that may arise.

Our laboratories use certain chemical and biological agents and compounds that may be deemed hazardous and we are therefore subject to various safety and environmental laws and regulations. Compliance with these laws and regulations may result in significant costs, which could materially reduce our ability to become profitable.

We use hazardous materials, including chemicals and biological agents and compounds that could be dangerous to human health and safety or the environment. As appropriate, we safely store these materials and wastes resulting from their use at our laboratory facility pending their ultimate use or disposal. We contract with a third party to properly dispose of these materials and wastes. We are subject to a variety of federal, state and local laws and regulations governing the use, generation, manufacture, storage, handling and disposal of these materials and wastes. We may incur significant costs complying with environmental laws and regulations adopted in the future.

Risks Relating to our Industry and Other External Factors

Adverse conditions in the capital and credit markets may significantly affect our ability to obtain financing. If we are unable to obtain financing in the amounts and on terms and dates acceptable to us, we may not be able to expand or continue our operations and development, and thus may be forced to curtail or cease operations or discontinue our business.

We cannot assure that we will be able to obtain financing when it is needed. Over the past year, the capital and credit markets have reached unprecedented levels of volatility and disruption, and if such adverse conditions continue, our ability to obtain financing may be significantly diminished. Our internal sources of liquidity may prove to be insufficient, and in such case, we may not be able to successfully obtain financing on favorable terms, or at all. If we are unable to obtain financing in the amounts and on terms and dates acceptable to us, we may not be able to continue our operations and development, and thus may be forced to curtail or cease operations or discontinue our business.

The successful development of biopharmaceuticals is highly uncertain.

Successful development of biopharmaceuticals is highly uncertain and is dependent on numerous factors, many of which are beyond our control. Products that appear promising in the early phases of development may fail to reach the market for several reasons including:

- pre-clinical study results that may show the product to be less effective than desired (e.g., the study failed to meet its primary objectives) or to have harmful or problematic side effects;
- failure to receive the necessary regulatory approvals or a delay in receiving such approvals. Among other things, such delays may be caused by slow enrollment in clinical studies, length of time to achieve study endpoints, additional time requirements for data analysis or a BLA, preparation, discussions with the FDA, an FDA request for additional pre-clinical or clinical data or unexpected safety or manufacturing issues;
- manufacturing costs, pricing or reimbursement issues, or other factors that make the product not economical; and
- the proprietary rights of others and their competing products and technologies that may prevent the product from being commercialized.

Success in pre-clinical and early clinical studies does not ensure that large-scale clinical studies will be successful. Clinical results are frequently susceptible to varying interpretations that may delay, limit or prevent regulatory approvals. The length of time necessary to complete clinical studies and to submit an application for marketing approval for a final decision by a regulatory authority varies significantly from one product to the next, and may be difficult to predict.

Political or social factors may delay or impair our ability to market our products.

Products developed to treat diseases caused by or to combat the threat of bio-terrorism will be subject to changing political and social environments. The political and social responses to bio-terrorism have been highly charged and unpredictable. Political or social pressures may delay or cause resistance to bringing our products to market or limit pricing of our products, which would harm our business. Changes to favorable laws, such as the Project BioShield Act, could have a material adverse effect on our ability to generate revenue and could require us to reduce the scope of or discontinue our operations.

We hope to continue receiving funding from the Department of Defense, BARDA and other government agencies for the development of our bio-defense product candidates. Changes in government budgets and agendas, however, may result in future funding being decreased and de-prioritized, and government contracts contain provisions that permit cancellation in the event that funds are unavailable to the government agency. Furthermore, we cannot be certain of the timing of any future funding, and substantial delays or cancellations of funding could result from protests or challenges from third parties. If the U.S. government fails to continue to adequately fund R&D programs, we may be unable to generate sufficient revenues to continue operations. Similarly, if we develop a product candidate that is approved by the FDA, but the U.S. government does not place sufficient orders for this product, our future business may be harmed.

Risks Relating to our Securities

The price of our common stock may be volatile, which may in turn expose us to securities litigation.

Our common stock is listed on the NASDAQ Capital Market. The listing of our common stock on the NASDAQ Capital Market does not assure that a meaningful, consistent and liquid trading market will exist, and in recent years, the market has experienced extreme price and volume fluctuations that have particularly affected the market prices of many smaller companies like us. Our common stock is thus subject to this volatility. Factors that could cause fluctuations include, but are not limited to, the following:

- price and volume fluctuations in the overall stock market from time to time;
- fluctuations in stock market prices and trading volumes of similar companies;
- actual or anticipated changes in our earnings or fluctuations in our operating results or in the expectations of securities analysts;
 - general economic conditions and trends;
 - major catastrophic events;
 - sales of large blocks of our stock;
 - departures of key personnel;
- changes in the regulatory status of our product candidates, including results of our clinical trials;
- events affecting the Cleveland Clinic, Roswell Park Cancer Institute or any other collaborators;
- announcements of new products or technologies, commercial relationships or other events by us or our competitors;
 - regulatory developments in the United States and other countries;
- failure of our common stock to be listed or quoted on the NASDAQ Capital Market, other national market system or any national stock exchange;
 - changes in accounting principles; and
- discussion of us or our stock price by the financial and scientific press and in online investor communities.

In the past, following periods of volatility in the market price of a company's securities, securities class action litigation has occasionally been brought against that company. Due to the potential volatility of our stock price, we may therefore be the target of securities litigation in the future. Regardless of its outcome, securities litigation could result in substantial costs and divert management's attention and resources from our business.

Sales of additional equity securities may adversely affect the market price of our common stock.

We expect to continue to incur product development and selling, general and administrative costs, and in order to satisfy our funding requirements, we may need to sell additional equity securities. The sale or the proposed sale of substantial amounts of our common stock in the public markets may adversely affect the market price of our common

stock and our stock price may decline substantially. Any new securities issued may have greater rights, preferences or privileges than our existing common stock.

Additional authorized shares of common stock available for issuance may adversely affect the market.

We are currently authorized to issue 40,000,000 shares of our common stock and 10,000,000 of our preferred stock. As of December 31, 2008, we had 13,775,805 shares of our common stock and 3,160,974 shares of our preferred stock issued and outstanding, excluding shares issuable upon the exercise of our outstanding warrants and options. As of March 16, 2009, we had 14,014,137 shares of our common stock and 3,024,144 shares of our preferred stock issued and outstanding and 4,797,396 warrants and 1,938,742 options outstanding. To the extent the shares of common stock are issued or options and warrants are exercised, holders of our common stock will experience dilution. In addition, in the event of any future financing of equity securities or securities convertible into or exchangeable for, common stock, holders of our common stock may experience dilution.

Item 1B. Unresolved Staff Comments

None

Item 2. Description of Property

Our corporate headquarters is located at 73 High Street, Buffalo, New York 14203. We have approximately 28,000 square feet of laboratory and office space under a five year lease through June of 2012. This space serves as the corporate headquarters and primary research facilities. In addition, we have leased approximately 2,500 square feet of office space located at 9450 W. Bryn Mawr Rd., Rosemont, Illinois, 60018 through July 2011. We do not own any real property.

Item 3. Legal Proceedings

As of March 16, 2009, we were not a party to any litigation or other legal proceeding.

Item 4. Submission of Matters to a Vote of Security Holders

Not applicable.

Executive Officers of the Registrant as of March 16, 2009

Name	Age	Position
Michael Fonstein, Ph.D.	49	President and Chief Executive Officer
Andrei Gudkov, Ph.D., D.Sci.	52	Chief Scientific Officer
Yakov Kogan, Ph.D.	35	Chief Operating Officer
John A. Marhofer, Jr., CMA, CFM	46	Chief Financial Officer

The Board of Directors appoints all executive officers annually and such officers serve at the discretion of the Board of Directors. There is no family relationship between or among any of the executive officers or directors.

Michael Fonstein, Ph.D. Dr. Fonstein has served as our Chief Executive Officer, President, and as one of our directors since our inception in June 2003. He served as Director of the DNA Sequencing Center at the University of Chicago from its creation in 1994 to 1998, when he left to found Integrated Genomics, Inc. located in Chicago, Illinois. He served as CEO and President of Integrated Genomics from 1997 to 2003. Dr. Fonstein has won several

business awards, including the Incubator of the Year Award from the Association of University Related Research Parks. He was also the winner of a coveted KPMG Illinois High Tech Award.

Andrei Gudkov, Ph.D., D. Sci. Dr. Gudkov has served as one of our directors and as our Chief Scientific Officer since our inception in June 2003. Prior to 1990, he worked at The National Cancer Research Center in Moscow, where he led a broad research program focused on virology and cancer drug resistance. In 1990, he reestablished his lab at the University of Illinois at Chicago where he became a tenured faculty member in the Department of Molecular Genetics. His lab concentrated on the development of new functional gene discovery methodologies and the identification of new candidate cancer treatment targets. In 1999, he defined p53 as a major determinant of cancer treatment side effects and suggested this protein as a target for therapeutic suppression. In 2001, Dr. Gudkov moved his laboratory to the Lerner Research Institute at the Cleveland Clinic where he became Chairman of the Department of Molecular Biology and Professor of Biochemistry at Case Western Reserve University. In May 2007, Dr. Gudkov became Senior Vice President of Research Programming and Development for Roswell Park Cancer Institute. He continues in his capacity as a consultant with CBLI.

Yakov Kogan, Ph.D. Dr. Kogan has served as one of our directors since our inception in June 2003, as Secretary since March 2006, and as Chief Operating Officer since February 2008. Dr. Kogan also served as our Executive Vice President of Business Development from our inception until February 2008. From 2002 to 2003, as Director for Business Development at Integrated Genomics, he was responsible for commercial sales and expansion of the company's capital base. Prior to his tenure in business development, Dr. Kogan worked as a Group Leader/Senior Scientist at Integrated Genomics and ThermoGen, Inc. and as Research Associate at the University of Chicago. Dr. Kogan holds a Ph.D. degree in Molecular Biology from All-Union Research Institute of Genetics and Selection of Industrial Microorganisms (VNIIGenetika) (Moscow, Russia), as well as an MBA degree from the University of Chicago Graduate School Of Business.

John (Jack) A. Marhofer, Jr., CMA, CFM Mr. Marhofer joined us as Controller and General Manager in February 2005 and was subsequently appointed to be our Chief Financial Officer in August 2005. He was Corporate Controller of Litehouse Products, Inc. from June 2001 to February 2005. Mr. Marhofer earned his Bachelor of Science in Accounting and Marketing from Miami University in Ohio in 1984, and his Masters in Business Administration in Finance from Akron University in Ohio in 1997, where he was named to the National Honor Society of the Financial Management Association.

PART II

Item 5: Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities

Stock Exchange Listing

Our common stock trades on the NASDAQ Capital Market under the symbol "CBLI." We have not paid dividends on our common stock. We currently intend to retain all future income for use in the operation of our business and for future stock repurchases and, therefore, we have no plans to pay cash dividends on our common stock at this time.

Common Stockholders

As of December 31, 2008, there were approximately 40 stockholders of record of our Common Stock. Because many of our shares are held by brokers and other institutions on behalf of stockholders, we are unable to estimate the total number of beneficial stockholders represented by these record holders.

We made no repurchases of our securities during the year ended December 31, 2008.

Stock Prices

The following table sets forth the range of high and low sale prices on The NASDAQ Stock Market and/or NASDAQ Capital Market, as applicable, for each quarter during 2008 and 2007. On March 16, 2009, the last reported sale price of our common stock was \$1.40 per share.

2008	High	Low
First Quarter	\$ 8.79	\$ 2.03
Second Quarter	\$ 6.40	\$ 3.82
Third Quarter	\$ 5.65	\$ 3.70
Fourth Quarter	\$ 4.59	\$ 1.51
2007	High	Low
First Quarter	\$ 13.99	\$ 4.49
Second Quarter	\$ 11.98	\$ 8.00
Third Quarter	\$ 13.89	\$ 9.10
Fourth Quarter	\$ 13.07	\$ 6.64

Item 6: Selected Financial Data

The following selected financial data has been derived from our audited financial statements. The information below is not necessarily indicative of the results of future operations and should be read in conjunction with Item 7, "Management's Discussion and Analysis of Financial Condition and Results of Operations," and Item 1A, "Risk Factors," of this Form 10-K, and the financial statements and related notes thereto included in Item 8 of this Form 10-K, in order to fully understand factors that may affect the comparability of the information presented below

SELECTED FINANCIAL DATA
(in thousands, except per share data)

	2008	2007	2006	2005	2004
Total Operating Revenue	\$ 4,706	\$ 2,019	\$ 1,708	\$ 1,139	\$ 636
Government contract or grant	4,586	1,729	1,503	1,000	531
Commercial	120	290	205	139	105
Net loss	\$ (14,026) (1)	\$ (26,997) (1)	\$ (7,223) (1)	\$ (2,678) (1)	\$ (2,523)
Net loss per share, basic and diluted	\$ (1.13)	\$ (2.34)	\$ (0.84)	\$ (0.43)	\$ (0.55)
Total assets	\$ 4,706	\$ 17,422	\$ 6,417	\$ 4,253	\$ 382
Long-term debt	-	-	50	303	334
Stockholder's equity (deficit)	538	14,194	5,593	3,557	(374)

We have not paid any dividends on common stock.

All per share amounts reflect the 596-to-1 stock split that was effected in 2004.

(1) Net loss in 2008, 2007, 2006 and 2005 included employee stock-based compensation costs of \$1.5 million, \$7.8 million, \$0.5 million and \$0.3 million, net of tax, respectively, due to our adoption of Statement of Financial Accounting Standards No. 123(R), "Share-Based Payment," on a modified prospective basis on January 1, 2005. No employee stock-based compensation expense was recognized in reported amounts in any period prior to January 1, 2005.

Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations

This management's discussion and analysis of financial condition and results of operations and other portions of this filing contain forward-looking information that involves risks and uncertainties. Our actual results could differ materially from those anticipated by the forward-looking information. Factors that may cause such differences include, but are not limited to, availability and cost of financial resources, results of our R&D efforts and clinical trials, product demand, market acceptance and other factors discussed in this annual report and the Company's other SEC filings under the heading "Risk Factors." This management's discussion and analysis of financial condition and results of operations should be read in conjunction with our financial statements and the related notes included elsewhere in this filing.

Overview

We incorporated in Delaware and commenced business operations in June 2003. We secured a \$6,000,000 investment via a private placement of Series A Preferred Stock in March 2005. On July 20, 2006, we sold 1,700,000 shares of common stock in our initial public offering at \$6.00 per share. The net proceeds from this offering were approximately \$8,300,000. Beginning July 21, 2006, our common stock was listed on the NASDAQ Capital Market and on the Boston Stock Exchange under the symbols "CBLI" and "CFB" respectively. On August 28, 2007, trading of our stock moved from the NASDAQ Capital Market to the NASDAQ Global Market. In September 2007, we ceased our listing on the Boston Stock Exchange. On November 28, 2008, trading of our common stock transferred from the NASDAQ Global Market to the NASDAQ Capital Market.

On September 21, 2006, the SEC declared effective a registration statement of the Company registering up to 4,453,601 shares of common stock for resale from time to time by the selling stockholders named in the prospectus contained in the registration statement. We will not receive any proceeds from the sale of the underlying shares of common stock, although to the extent the selling stockholders exercise warrants for the underlying shares of common stock, we will receive the exercise price of those warrants. The registration statement was filed to satisfy registration rights that we had previously granted in connection with our Series A Preferred transaction.

On March 16, 2007, we consummated a transaction with various accredited investors pursuant to which we agreed to sell to the investors, in a private placement, an aggregate of approximately 4,288,712 shares of Series B Convertible Preferred Stock, par value \$0.005 per share, and Series B Warrants to purchase approximately 2,144,356 shares of our common stock pursuant to a Securities Purchase Agreement of the same date. The aggregate purchase price paid by the investors for the Series B Preferred and Series B Warrants was approximately \$30,000,000. After related fees and expenses, we received net proceeds of approximately \$29,000,000. We intend to use the proceeds for general corporate and working capital purposes.

The Series B Preferred have an initial conversion price of \$7.00 per share, and in the event of a conversion at such conversion price, one share of Series B Preferred would convert into one share of common stock. Based on the closing price of our stock on March 16, 2007 of \$10.19, the Series B Preferred sold to investors and issued to certain of the Agents had a market value of \$46,660,112. The Series B Warrants have an exercise price of \$10.36 per share, the closing bid price on the day prior to the private placement. To the extent, however, that the conversion price of the Series B Preferred or the exercise price of the Series B Warrants is reduced as a result of certain anti-dilution protections, the number of shares of common stock into which the Series B Preferred are convertible and for which the Series B Warrants are exercisable may increase.

We also issued to the placement agents in the private placement, as compensation for their services, Series B Preferred, Series B Warrants, and Series C Warrants. The agents collectively received Series B Preferred that are convertible into an aggregate of 290,298 shares of common stock, Series B Warrants that are exercisable for an aggregate of 221,172 shares of our common stock, and Series C Warrants that are exercisable for 267,074 shares of

our common stock. The Series C Warrants have an exercise price of \$11.00 per share, and are also subject to antidilution protections that could increase the number of shares of common stock for which they are exercisable.

In total, the securities issued in the private placement were convertible into, or exercisable for, up to approximately 7,211,612 shares of common stock (subject to adjustments for stock splits, anti-dilution, etc.). As of March 16, 2009 the securities issued in the transaction, in the aggregate, were convertible into or exercisable for approximately 6,249,469 shares of common stock that remain outstanding (subject to adjustments for stock splits, anti-dilution, etc.).

Proceeds from these transactions, together with grants we have received, have supported our R&D activities through December 31, 2008. We are actively seeking new grants and co-development contacts with premier pharmaceutical partners to support further development of other promising leads resulting from our R&D program.

On December 11, 2007, the SEC declared effective a registration statement of the Company registering up to 5,514,999 shares of common stock for resale from time to time by the selling stockholders named in the prospectus contained in the registration statement. This number represents 5,514,999 shares of common stock issuable upon the conversion or exercise of the securities issued the Company's March 2007 private placement at the current conversion and exercise prices. Of these 5,514,999 shares of common stock, 3,717,515 shares are issuable upon conversion of Series B Preferred and 1,797,484 shares are issuable upon exercise of the Series B Warrants. We will not receive any proceeds from the sale of the underlying shares of common stock, although to the extent the selling stockholders exercise warrants for the underlying shares of common stock, we will receive the exercise price of those warrants. The registration statement was filed to satisfy registration rights that we had previously granted. Subsequent to the effectiveness of the registration statement, 1,418,036 Series B Preferred were converted and \$321,293 in dividends earned have been accrued as of December 31, 2008.

Critical Accounting Policies

Our management's discussion and analysis of our financial condition and results of operations is based upon our financial statements, which have been prepared in accordance with generally accepted accounting principles in the U.S., or GAAP. The preparation of these financial statements requires us to make estimates and judgments that affect the reported amounts of our assets, liabilities, revenues, expenses and other reported disclosures. We base our estimates on historical experience and on various other assumptions that we believe are reasonable under the circumstances.

Note 2 to our financial statements include disclosure of our significant accounting policies. While all decisions regarding accounting policies are important, we believe that our policies regarding revenue recognition, R&D expenses, intellectual property related costs, stock-based compensation expense and income taxes could be considered critical.

Revenue Recognition

We recognize revenue in accordance with Staff Accounting Bulletin No. 104, "Revenue Recognition", and Statement of Financial Accounting Standards No. 116, or SFAS 116. Our revenue sources consist of government contracts, government grants and a commercial development contract.

Government contract and grant revenue is recognized using two different methods depending on the type of contract or grant. Cost reimbursement contracts and grants require us to submit proof of costs incurred that are invoiced by us to the government agency, which then pays the invoice. In this case, revenue is recognized during the period that the costs were incurred.

Fixed-cost grants require no proof of costs and are paid as a request for payment is submitted for expenses. The grant revenue under these fixed cost grants is recognized using a percentage-of-completion method, which uses assumptions and estimates. These assumptions and estimates are developed in coordination with the principal investigator performing the work under the government fixed-cost grants to determine key milestones, expenses incurred, and deliverables to perform a percentage-of-completion analysis to ensure that revenue is appropriately recognized. Critical estimates involved in this process include total costs incurred and anticipated to be incurred during the remaining life of the grant.

We recognize revenue related to the funds received in 2007 from the State of New York under the sponsored research agreement with the Roswell Park Cancer Institute in accordance with SFAS 116. The principles of SFAS 116 result in the recognition of revenue as allowable costs are incurred. We recognize revenue on research laboratory services and the purchase and subsequent use of related equipment. The amount paid as a payment toward future use related to the equipment is recognized as a prepaid asset and will be recognized as revenue as the equipment is amortized over its useful life and the prepaid asset is recognized as expense.

Government contract revenue is recognized as allowable research and development expenses are incurred during the period and according to the terms of the contract. Commercial development revenues are recognized when the service or development is delivered.

Research and Development Expenses

R&D costs are expensed as incurred. These expenses consist primarily of our proprietary R&D efforts, including salaries and related expenses for personnel, costs of materials used in our R&D, costs of facilities and costs incurred in connection with our third-party collaboration efforts. Pre-approved milestone payments made by us to third parties under contracted R&D arrangements are expensed when the specific milestone has been achieved. As of December 31, 2008, \$50,000 has been paid to CCF for milestone payments relating to the filing of an IND with the FDA for Curaxin CBLC102, \$250,000 has been paid to CCF as a result of commencing Phase II clinical trials for Curaxin CBLC102 and \$50,000 has been paid to CCF relating to the filing of an IND with the FDA for Protectan CBLB502. Once a drug receives regulatory approval, we will record any subsequent milestone payments in identifiable intangible assets, less accumulated amortization, and amortize them evenly over the remaining agreement term or the expected drug life cycle, whichever is shorter.

Intellectual Property Related Costs

We capitalize costs associated with the preparation, filing and maintenance of our intellectual property rights. Capitalized intellectual property is reviewed annually for impairment. If a patent application is approved, costs paid by us associated with the preparation, filing and maintenance of the patent will be amortized on a straight line basis over the shorter of 20 years or the anticipated useful life of the patent. If the patent application is not approved, costs paid by us associated with the preparation, filing and maintenance of the patent will be expensed as part of general and administrative expenses at that time.

Through December 31, 2007, we had capitalized \$459,102 in expenditures associated with the preparation, filing and maintenance of certain of our patents. For the year ending December 31, 2008, we capitalized an additional \$333,995. In addition, the company abandoned two patent applications and expensed \$60,046 to selling, general and administrative expenses. This resulted in a balance of \$733,051 in expenditures associated with the filing and maintenance of certain patents as a December 31, 2008 capitalized balance for intellectual property.

Stock-based Compensation

The Financial Accounting Standards Board (FASB) issued SFAS No. 123(R) requiring all share-based payments to employees, including grants of employee stock options, be recognized in the statement of operations based at their fair values. Accordingly, effective January 1, 2005, we value employee stock based compensation under the provisions of SFAS 123(R) and related interpretations.

The fair value of each stock option granted is estimated on the grant date using the Black-Scholes option valuation model or the Monte Carlo Simulation depending on the terms and conditions present within the specific option being valued. The Black-Scholes option valuation model was developed for use in estimating the fair value of traded options that have no vesting restrictions and are fully transferable. In addition, the Black-Scholes valuations model requires the input of highly subjective assumptions including the expected stock price volatility. Because our employee stock options have characteristics significantly different from those of traded options, and because changes in subjective input assumptions can materially affect the fair value estimate, in management's opinion, the existing models do not necessarily provide a reliable single measure of the fair value of our options. For those stock options where market conditions are present within the stock options, we utilize Monte Carlo simulation to value the stock options. There was one issuance in the fiscal year ended December 31, 2007, for a total of 90,000 options to an outside consultant where Monte Carlo simulation was used to value the issuance.

On March 1, 2006, we granted 116,750 options pursuant to stock award agreements to certain employees and key consultants. On July 20, 2006, we granted a total of 45,000 fully-vested, stock options to our new independent board members (Messrs. Antal, Kasten, and Perez) pursuant to stock award agreements.

In the fiscal year ended December 31, 2007, we granted 520,000 options pursuant to stock award agreements to certain employees and key consultants. On June 12, 2007 we granted 140,000 fully-vested stock options to the independent board members (Messrs. Antal, DiCorleto, Kasten, and Perez) pursuant to stock award agreements.

In the fiscal year ended December 31, 2008, we granted 857,721 options pursuant to stock award agreements to certain employees and key consultants. On April 29, 2008 we granted 140,000 fully-vested stock options to the independent board members (Messrs. Antal, DiCorleto, Kasten, and Perez) pursuant to stock award agreements. In addition, during the fiscal year ended December 31, 2008, we issued 130,000 restricted shares to certain key employees and key consultants and granted an additional 15,000 restricted shares to a key employee that vest over a three year period.

We recognized a total of \$828,377, \$3,401,499, and \$506,078 in expense for options for the years ended December 31, 2008, 2007 and 2006 respectively. For the year ended December 31, 2008, we recognized a total of \$626,500 in expense for shares issued and a total of \$72,722 in expense related to the amortization of restricted shares. For the year ended December 31, 2007 and 2006, the Company recognized a total of \$1,700,450 and \$0, respectively, in expense for shares issued to various consultants.

The weighted average, estimated grant date fair values of stock options granted during the years ended December 31, 2008, 2007 and 2006 were \$3.16, \$6.08 and \$3.14, respectively.

Income Taxes

The Company accounts for income taxes in accordance with Statement of Financial Accounting Standards No. 109 "Accounting for Income Taxes," which requires an asset and liability approach to financial accounting and reporting for income taxes. Deferred tax assets and liabilities are recognized for the estimated future tax consequences attributable to operating loss and tax credit carryforwards, and temporary differences between the financial statement carrying amounts of existing assets and liabilities and their respective tax bases. Deferred tax assets and liabilities are measured using enacted tax rates expected to apply to taxable income in the years in which those operating loss carryforwards and temporary differences are expected to be recovered or settled. The effect on deferred income tax assets and liabilities of a change in tax rates is recognized in income in the period that includes the enactment date. A valuation allowance is established, if necessary, to reduce the deferred tax asset to the amount that will, more likely than not, be realized. The Company accounts for interest and penalties related to uncertain tax positions as part of its provision for income taxes.

Impact of Recently Issued Accounting Pronouncements

In June 2008, the Financial Accounting Standards Board ("FASB") issued EITF Issue No. 07-5 ("EITF 07-5"), Determining whether an Instrument (or Embedded Feature) is indexed to an Entity's Own Stock. EITF No. 07-5 is effective for financial statements issued for fiscal years beginning after December 15, 2008, and interim periods within those fiscal years. Early application is not permitted. Paragraph 11(a) of SFAS No. 133 - specifies that a contract that would otherwise meet the definition of a derivative but is both (a) indexed to the Company's own stock and (b) classified in stockholders' equity in the statement of financial position would not be considered a derivative financial instrument. EITF 07-5 provides a new two-step model to be applied in determining whether a financial instrument or an embedded feature is indexed to an issuer's own stock and thus able to qualify for the SFAS No. 133 paragraph 11(a) scope exception. The adoption of EITF 07-5 is not anticipated to materially impact our financial statements.

In June 2008, the FASB issued EITF 08-4, "Transition Guidance for Conforming Changes to Issue No. 98-5." The objective of EITF 08-4 is to provide transition guidance for conforming changes made to EITF No. 98-5, "Accounting for Convertible Securities with Beneficial Conversion Features or Contingently Adjustable Conversion Ratios," that result from EITF No. 00-27 "Application of Issue No. 98-5 to Certain Convertible Instruments," and SFAS 150, "Accounting for Certain Financial Instruments with Characteristics of both Liabilities and Equity." This Issue is effective for financial statements issued for fiscal years ending after December 15, 2008. Early application is permitted. We are currently evaluating the impact of adoption of EITF 08-4.

In May 2008, the FASB issued SFAS No. 162, Hierarchy of Generally Accepted Accounting Principles ("SFAS No. 162"). SFAS No. 162 identifies the sources of accounting principles and the framework for selecting the principles used in the preparation of financial statements. The implementation of this standard did not have an impact on our financial statements.

In April 2008, the FASB issued FASB Staff Position No. FAS 142-3, "Determination of the Useful Life of Intangible Assets" ("FSP FAS 142-3"). FSP FAS 142-3 amends the factors that should be considered in developing renewal or extension assumptions used to determine the useful life of a recognized intangible asset under FASB Statement No. 142, "Goodwill and Other Intangible Assets". The FSP is intended to improve the consistency between the useful life of a recognized intangible asset under Statement 142 and the period of expected cash flows used to measure the fair value of the asset under SFAS 141(R) and other U.S. generally accepted accounting principles. The new standard is effective for financial statements issued for fiscal years and interim periods beginning after December 15, 2008. We are currently evaluating the impact, if any of FSP FAS 142-3 upon adoption on our financial statements.

In March 2008, the FASB issued SFAS No. 161, "Disclosures about Derivative Instruments and Hedging Activities," (SFAS No. 161). SFAS No. 161 amends and expands the disclosure requirements of SFAS No. 133, "Accounting for Derivative Instruments and Hedging Activities." SFAS No. 161 requires qualitative disclosures about objectives and strategies for using derivatives, quantitative disclosures about fair value amounts of gains and losses on derivative instruments and disclosures about credit-risk-related contingent features in derivative agreements. SFAS No. 161 is intended to improve financial reporting about derivative instruments and hedging activities by requiring enhanced disclosures to enable investors to better understand their effects on an entity's financial position, financial performance, and cash flows. This statement is effective for financial statements issued for fiscal years beginning after November 15, 2008. The adoption of SFAS No.161 will not affect our financial condition and results of operations, but may require additional disclosures if we enter into derivative and hedging activities.

In December 2007, the FASB issued Statement No. 160, Noncontrolling Interests in Consolidated Financial Statements — An Amendment of ARB No. 51, or SFAS 160. SFAS 160 establishes new accounting and reporting standards for the noncontrolling interest in a subsidiary and for the deconsolidation of a subsidiary. Specifically, SFAS 160 requires the recognition of a noncontrolling interest (minority interest) as equity in the consolidated financial statements and separate from the parent's equity. The amount of net income attributable to the noncontrolling interest will be included in consolidated net income on the face of the income statement. In addition, SFAS 160 requires that a parent recognize a gain or loss in net income when a subsidiary is deconsolidated. Such gain or loss will be measured using the fair value of the noncontrolling equity investment on the deconsolidation date. SFAS 160 also includes expanded disclosure requirements regarding the interests of the parent and its noncontrolling interest. SFAS 160 is effective for fiscal years, and interim periods within those fiscal years, beginning on or after December 15, 2008. We do not expect a material impact from the adoption of SFAS 160.

In December 2007, the FASB issued Statement No. 141 (revised 2007), Business Combinations ("SFAS 141(R)"), which replaces SFAS 141. SFAS 141(R) requires an acquiring entity to recognize all the assets acquired and liabilities assumed in a transaction at the acquisition-date fair value with limited exceptions. In addition, SFAS 141(R) will require acquisition costs to be expensed as incurred, acquired contingent liabilities will be recorded at fair value at the acquisition date and subsequently measured at either the higher of such amount or the amount determined under existing guidance for non-acquired contingencies, in-process research and development will be recorded at fair value as an indefinite-lived intangible asset at the acquisition date, restructuring costs associated with a business combination will be generally expensed subsequent to the acquisition date and changes in deferred tax asset valuation allowances and income tax uncertainties after the acquisition date generally will affect income tax expense. SFAS 141(R) also includes a substantial number of new disclosure requirements. SFAS 141(R) is effective prospectively to business combinations for which the acquisition date is on or after the beginning of the first annual reporting period beginning on or after December 15, 2008. We anticipate that the prospective application of the provisions of SFAS 141(R) could have a material impact on the fair values assigned to assets and liabilities of any future acquisitions.

In October 2008, the FASB issued FAS 157-3, Determining the Fair Value of a Financial Asset When the Market for That Asset Is Not Active (FAS 157-3). FAS 157-3 clarifies the application of FASB Statement No. 157, Fair Value Measurements, in a market that is not active and provides an example to illustrate key considerations in determining the fair value of a financial asset when the market for that financial asset is not active. The FSP is effective upon issuance, including for prior periods for which financial statements have not been issued. Revisions resulting from a change in the valuation technique or its application should be accounted for as a change in accounting estimate following the guidance in FASB Statement No. 154, Accounting Changes and Error Corrections. However, the disclosure provisions in Statement 154 for a change in accounting estimate are not required for revisions resulting from a change in valuation technique or its application. We believe the impact of this pronouncement on our financial statements to be immaterial.

In September 2006, the Financial Accounting Standards Board ("FASB") issued Statement of Financial Accounting Standard ("SFAS") No. 157, "Fair Value Measurements." SFAS No. 157 provides enhanced guidance for using fair value

to measure assets and liabilities and expands disclosure with respect to fair value measurement. This statement was originally effective for fiscal years beginning after November 15, 2007. In February 2008, the FASB issued Staff Position FSP 157-2 which allows companies to elect a one year deferral of adoption of SFAS No. 157 for non-financial assets and non-financial liabilities that are recognized or disclosed at fair values in the financial statements on a non-recurring basis. The Company has adopted SFAS No. 157 as of January 1, 2008. There has been no material impact to our financial statements due to the adoptions of SFAS No. 157.

Results of Operations

Our operating results for the past three fiscal years have been nominal. The following table sets forth our statement of operations data for the years ended December 31, 2008, 2007 and 2006 and should be read in conjunction with our financial statements and the related notes appearing elsewhere in this annual report on Form 10-K.

	Year Ended December 31, 2008	Year Ended December 31, 2007	Year Ended December 31, 2006
Revenues	\$ 4,705,597	\$ 2,018,558	\$ 1,708,214
Operating expenses	19,050,965	27,960,590	9,126,315
Other expense (income)	(59,597)	2,058,236	-
Net interest expense (income)	(259,844)	(1,003,766)	(195,457)
Net income (loss)	\$ (14,025,927)	\$ (26,996,502)	\$ (7,222,644)

Year Ended December 31, 2008 Compared to Year Ended December 31, 2007

Revenue

Revenue increased from \$2,018,558 for the year ended December 31, 2007 to \$4,705,597 for the year ended December 31, 2008, representing an increase of \$2,687,039 or 133.1%, resulting primarily from an increase in revenue from the DoD contract, the BARDA contract and the NIAID grant.

See the table below for further details regarding the sources of our grant and government contract revenue:

Agency	Program	Amount	Period of Performance	Revenue 2008	Revenue 2007
DoD	DTRA Contract	\$ 1,263,836	03/2007-02/2009	\$ 613,901	\$ 466,322
NIH	Phase II NIH SBIR program	\$ 750,000	07/2006-06/2008	\$ 77,971	\$ 459,621
NASA	Phase I NASA STTR program	\$ 100,000	01/2006-01/2007	\$ -	\$ 33,197
Sponsored Research					
NY State/RPCI	Agreement	\$ 3,000,000	03/2007-02/2012	\$ 305,298	\$ 329,390
NIH	NCI Contract	\$ 750,000	09/2006-08/2008	\$ 219,618	\$ 440,028
DoD	DOD Contract	\$ 8,900,000	05/2008 - 09/2009	\$ 2,938,357	\$ -
HHS	BARDA Contract	\$ 13,300,000	09/2008-09/2011	\$ 219,412	\$ -
NIH	NIAID Grant	\$ 774,183	09/2008-02/2010	\$ 211,040	\$ -
Totals				\$ 4,585,597	\$ 1,728,558

We anticipate our revenue over the next year to be derived mainly from government grants and contracts. We have been awarded 17 government contracts and grants totaling over \$30 million in funding for R&D. We plan to submit proposals for additional government contracts and grants over the next two years totaling over \$30 million in funding. Many of the proposals will be submitted to government agencies that have awarded contracts and grants to us in the recent past, but there is no guarantee that any will be awarded to us.

If these awards are not funded in their entirety or if new grants and contracts are not awarded in the future, our ability to fund future R&D and implement technological improvements would be diminished, which would negatively impact our ability to compete in our industry.

Operating Expenses

Operating expenses have historically consisted of costs relating to R&D and general and administrative expenses. R&D expenses have consisted mainly of supporting our R&D teams, process development, sponsored research at the Roswell Park Cancer Institute and the Cleveland Clinic, clinical trials and consulting fees. We plan to incur only those R&D costs that are properly funded, either through a government contract or grant or other capital sources such as direct investment. General and administrative expenses include all corporate and administrative functions that serve to support our current and future operations while also providing an infrastructure to support future growth. Major items in this category include management and staff salaries, rent/leases, professional services and travel-related expenses. Some of these costs will be funded through government contracts and grants that provide indirect cost reimbursement for certain indirect costs such as fringe benefits, overhead and general and administrative expenses.

Operating expenses decreased from \$27,960,590 for the year ended December 31, 2007 to \$19,050,965 for the year ended December 31, 2008. This represents a decrease of \$8,909,625 or 31.9%. We recognized a total of \$1,527,598 of non-cash compensation for stock based compensation for the year December 31, 2008 compared to \$7,789,305 for the year ended December 31, 2007. If these non-cash stock based compensation expenses were excluded, operating expenses would have decreased from \$20,171,285 for the year ended December 31, 2007 to \$17,523,367 for the year ended December 31, 2008. This represents a decrease in operating expenses of \$2,647,918 or 15.1%.

This decrease resulted primarily from a decrease in R&D expenses from \$17,429,652 for the year ended December 31, 2007 to \$13,160,812 for the year ended December 31, 2008, a decrease of \$4,268,840 or 24.5%. The reduced R&D expenses were incurred primarily as a result of decreasing the number of R&D subcontracts and other costs until sufficient funding is obtained. We recognized a total of \$1,836,787 of non-cash compensation for R&D stock based compensation for the year ended December 31, 2007 compared to \$632,252 for the year ended December 31, 2008. Without the non-cash stock based compensation, the R&D expenses decreased from \$15,592,865 for the year ended December 31, 2007 to \$12,528,560 for the year ended December 31, 2008; a decrease of \$3,064,305 or 19.7%.

The following table summarizes research and development expenses for the years ended December 31, 2008, 2007 and 2006 and since inception:

	Year Ended December 31, 2008	Year Ended December 31, 2007	Year Ended December 31, 2006	Total Since Inception
Research and development	\$ 13,160,812	\$ 17,429,652	\$ 6,989,804	\$ 43,256,722
General	\$ 931,441	\$ 892,456	\$ 378,113	\$ 5,106,630
Protectan CBLB502 - non-medical applications	\$ 7,264,813	\$ 9,885,776	\$ 3,574,593	\$ 21,601,196
Protectan CBLB502 - medical applications	\$ 756,227	\$ 815,399	\$ 144,369	\$ 1,776,929
Protectan CBLB612	\$ 974,459	\$ 1,127,248	\$ 466,715	\$ 3,130,374
Curaxin CBLC102	\$ 1,741,194	\$ 2,712,521	\$ 1,372,998	\$ 6,466,483
Other Curaxins	\$ 1,492,678	\$ 1,996,252	\$ 1,053,016	\$ 5,175,110

In addition, selling, general and administrative expenses decreased from \$10,530,938 for the year ended December 31, 2007 to \$5,890,153, for the year ended December 31, 2008. This represents a decrease of \$4,640,785 or 44.1%. These lower selling, general and administrative expenses were incurred as a result of a substantial reduction in the non-cash stock based compensation for the selling, general and administrative area of the Company. We recognized a total of \$5,952,517 of non-cash stock-based compensation for general and administrative compensation for the year ended December 31, 2007 compared to \$895,346 for the year ended December 31, 2008. Without the non-cash stock based compensation, the general and administrative expenses increased from \$4,578,421 for the year ended December 31, 2007 to \$4,994,807 for the year ended December 31, 2008; an increase of \$416,386 or 9.1%.

Until we introduce a product to the market, expenses in the categories mentioned above will be the largest component of our income statement.

Year Ended December 31, 2007 Compared to Year Ended December 31, 2006

Revenue

Revenue increased from \$1,708,214 for the year ended December 31, 2006 to \$2,018,558 for the year ended December 31, 2007, representing an increase of \$310,344 or 18.2%, resulting primarily from an increase in revenue from various grants including the sponsored research agreement with RPCI, the DTRA contract, and the NCI contract. As the term of the BioShield grant ended, the proceeds from the BioShield grant were \$0 for the year ended December 31, 2007 as compared to \$1,100,293 for the year ended December 31, 2006.

Operating Expenses

Operating expenses increased from \$9,126,315 for the year ended December 31, 2006 to \$27,960,590 for the year ended December 31, 2007. This represents an increase of \$18,834,275 or 206.4%. We recognized a total of \$7,789,305 of non-cash compensation for stock based compensation for the year December 31, 2007 compared to \$506,078 for the year ended December 31, 2006. If these non-cash stock based compensation expenses were excluded, operating expenses would have increased from \$8,620,237 for the year ended December 31, 2006 to \$20,171,285 for the year ended December 31, 2007. This represents an increase in operating expenses of \$11,551,048 or 134.0%.

This increase resulted primarily from an increase in R&D expenses from \$6,989,804 for the year ended December 31, 2006 to \$17,429,652 for the year ended December 31, 2007, an increase of \$10,439,848 or 149.4%. The higher R&D expenses were incurred as a result of increasing the number of research and development personnel, commencing clinical trials for CBLC102 and completing the cGMP manufacturing of CBLB502. We recognized a total of \$250,682 of non-cash compensation for R&D stock based compensation for the year ended December 31, 2006 compared to \$1,836,787 for the year ended December 31, 2007. Without the non-cash stock based compensation, the R&D expenses increased from \$6,739,122 for the year ended December 31, 2006 to \$15,592,865 for the year ended December 31, 2007; an increase of \$8,853,743 or 131.4%.

In addition, general and administrative expenses increased from \$2,136,511 for the year ended December 31, 2006 to \$10,530,938, for the year ended December 31, 2007. This represents an increase of \$8,394,427 or 392.9%. These higher general and administrative expenses were incurred as a result of creating and improving the infrastructure of the company and the costs associated with being a publicly traded company. We recognized a total of \$255,396 of non-cash stock-based compensation for general and administrative compensation for the year ended December 31, 2006 compared to \$5,952,517 for the year ended December 31, 2007. Without the non-cash stock based compensation, the general and administrative expenses increased from \$1,881,115 for the year ended December 31, 2006 to \$4,578,421 for the year ended December 31, 2007; an increase of \$2,697,306 or 143.4%.

Liquidity and Capital Resources

We have incurred annual operating losses since our inception, and, as of December 31, 2008 we had an accumulated deficit of \$56,246,173. Our principal sources of liquidity have been cash provided by sales of our securities, and government grants, contracts and agreements. Our principal uses of cash have been R&D and working capital. We expect our future sources of liquidity to be primarily government contracts and grants, equity financing, licensing fees and milestone payments in the event we enter into licensing agreements with third parties, and research collaboration fees in the event we enter into research collaborations with third parties.

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Net cash used in operating activities totaled \$12,121,102 for the year ended December 31, 2008, compared to \$16,607,922 used in operating activities for the same period in 2007. This decrease in cash used in operating activities resulted from a reduction in our net loss due to increase contract and grant revenues. Net cash used in operating activities totaled \$6,653,602 for the same period in 2006.

Net cash used in investing activities was \$558,407 for the year ended December 31, 2008 and \$442,523 used for the same period in 2007. The increase in cash used for investing activities resulted primarily from an increase in the investment in intellectual property and the reduction in proceeds from the maturity of short term investment as compared to 2007. Net cash used in investing activities was \$14,281 for the same period in 2006.

Net cash used in financing activities totaled \$1,232,831 for the year ended December 31, 2008, compared to \$28,200,591 provided by financing activities for the same period in 2007. The decrease in cash provided by financing activities was attributed to the dividends paid on the Series B Preferred in 2008 as compared to the proceeds from the issuance of Series B Preferred in connection with our private placement offering in 2007. Net cash provided by financing activities totaled \$8,523,414 for the same period in 2006. The funds provided for the year ended December 31, 2006 were attributable primarily to the net proceeds from our initial public offering in July 2006.

Under our exclusive license agreement with the Cleveland Clinic, we may be responsible for making milestone payments to the Cleveland Clinic in amounts ranging from \$50,000 to \$4,000,000. The milestones and corresponding payments for Protectan CBLB502 and Curaxin CBLC102 are set forth below:

File IND application for Protectan CBLB502 (completed February 2008)	\$ 50,000
Complete Phase I studies for Protectan CBLB502	\$ 100,000
File NDA application for Protectan CBLB502	\$ 350,000
Receive regulatory approval to sell Protectan CBLB502	\$ 1,000,000
File IND application for Curaxin CBLC102 (completed May 2006)	\$ 50,000
Commence Phase II clinical trials for Curaxin CBLC102 (completed January 2007)	\$ 250,000
Commence Phase III clinical trials for Curaxin CBLC102	\$ 700,000
File NDA application for Curaxin CBLC102	\$ 1,500,000
Receive regulatory approval to sell Curaxin CBLC102	\$ 4,000,000

As of December 31, 2008, we had accrued and paid \$50,000 for the milestone payment relating to the filing of the IND application for Curaxin CBLC102, \$50,000 for the milestone related to the filing of the IND application for Protectan CBLB502 and \$250,000 for the milestone payment relating to starting a Phase II hormone-refractory prostate cancer clinical trial for Curaxin CBLC102.

Our agreement with CCF also provides for payment by us to the CCF of royalty payments calculated as a percentage of the net sales of the drug candidates ranging from 1-2%, and sublicense royalty payments calculated as a percentage of the royalties received from the sublicenses ranging from 5-35%. However, any royalty payments and sublicense royalty payments assume that we will be able to commercialize our drug candidates, which are subject to numerous risks and uncertainties, including those associated with the regulatory approval process, our R&D process and other factors. Accrued milestone payments, royalty payments and sublicense royalty payments are payable upon achievement of the milestone.

To more effectively match short-term investment maturities with cash flow requirements, we have obtained a working capital line of credit, which is fully secured by our short-term investments. This line of credit has an interest rate of prime, a borrowing limit of \$1,000,000 and expires on September 25, 2009. At December 31, 2008, there were no outstanding borrowings under this credit facility.

We believe that existing cash resources will be sufficient to finance our currently planned operations for the near-term (approximately 12-24 months), such amounts will not be sufficient to meet our longer-term cash requirements, including our cash requirements for the commercialization of certain of our drug candidates currently in development. We may be required to issue equity or debt securities or enter into other financial arrangements, including relationships with corporate and other partners, in order to raise additional capital. Depending upon market conditions, we may not be successful in raising sufficient additional capital for our long-term requirements. In such event, our business, prospects, financial condition and results of operations could be materially adversely affected.

The following factors, among others, could cause actual results to differ from those indicated in the above forward-looking statements: the results of our R&D efforts, the timing and success of preclinical testing, the timing and success of any clinical trials we may commence in the future, the timing of and responses to regulatory submissions, the amount of cash generated by our operations, the amount of competition we face, and how successful we are in obtaining any required licenses and entering into collaboration arrangements.

Subsequent Event

On February 13, 2009, March 20, 2009, and March 27, 2009, the Company entered into Securities Purchase Agreements (the "Purchase Agreement") with various accredited investors (the "Purchasers"), pursuant to which the Company agreed to sell to the Purchasers an aggregate of 542.84 shares (the "Shares") of Series D Convertible Preferred Stock, with a par value of \$0.005 per share and a stated value of \$10,000 per share ("Series D Preferred"), and Common Stock Purchase Warrants (the "Warrants") to purchase an aggregate of 3,877,386 shares of the Company's Common Stock, par value \$0.005 per share ("Common Stock"). The Warrants have a seven-year term and an exercise price of \$1.60. Each share of Series D Preferred is convertible into approximately 7,143 shares of Common Stock, subject to the adjustment as described below.

The aggregate purchase price paid by the Purchasers for the Shares and the Warrants was approximately \$5,428,307 (representing \$10,000 for each Share together with a Warrant). After related fees and expenses, the Company received net proceeds of approximately \$4,460,000. The Company intends to use the proceeds for working capital purposes.

In consideration for its services as exclusive placement agent, Garden State Securities, Inc. ("GSS"), received cash compensation and Warrants to purchase an aggregate of approximately 387,736 shares of Common Stock. In the aggregate, Series D Preferred and Warrants issued in the transaction (including those issued to GSS) are convertible into, and exercisable for, approximately 8,142,508 shares of Common Stock. Each share of Series D Preferred is convertible into a number of shares of Common Stock equal to (1) the stated value of the share (\$10,000), divided by (2) \$1.40, subject to adjustment as discussed below (the "Conversion Price").

The Series D Preferred ranks junior to the Company's Series B Convertible Preferred Stock ("Series B Preferred") and senior to all shares of Common Stock and other capital stock of the Company.

If the Company does not meet certain milestones, the Conversion Price will, unless the closing price of the Common Stock is greater than \$3.69 on the date the Milestone is missed, be reduced to 80% of the Conversion Price in effect on that date (the "Milestone Adjustment"). In addition to the Milestone Adjustment, (a) on August 13, 2009 (the "Initial Adjustment Date"), the Conversion Price shall be reduced to 95% of the then Conversion Price, and (b) on each three month anniversary of the Initial Adjustment Date (each, an "Adjustment Date"), the then Conversion Price shall be reduced by \$0.05 (subject to adjustment) until maturity. The Conversion Price is also subject to proportional adjustment in the event of any stock split, stock dividend, reclassification or similar event with respect to the Common Stock and to anti-dilution adjustment in the event of any Dilutive Issuance (as defined in the Certificate of Designation).

If the closing price for each of any 20 consecutive trading days after the effective date of the initial registration statement filed pursuant to the Registration Rights Agreement (as defined below) (the "Effective Date") exceeds 300% of the then effective Conversion Price and various other equity conditions are satisfied, the Series D Preferred will automatically convert into shares of Common Stock.

At any time after February 13, 2012, the Company may, if various equity conditions are satisfied, elect either to redeem any outstanding Series D Preferred in cash or to convert any outstanding Series D Preferred into shares of Common Stock at the conversion rate then in effect.

If the Company receives any cash funds after February 13, 2009 from fees, royalties or revenues as a result of the license of any of its intellectual property (such net proceeds the “IP Proceeds”), cash funds from development grants from any government agency for the development of anti-cancer applications of any of the Company’s curaxin compounds or anti-cancer or biodefense applications for the Company’s CBLB502 compound (the “Governmental Grant Proceeds”) or allocates cash proceeds to its Escrow Account (as defined in the Purchase Agreement) (the “Company Allocation”), then the Company must deposit 40% of the IP Proceeds, 20% of the Governmental Grant Proceeds and the Company Allocation into an escrow account (the “Sinking Fund”). At any time after the later of the Effective Date and the 6-month anniversary of the initial contribution by the Company to the Sinking Fund, but no more than once in every six-month period, the Company will be required to use the funds then in the Sinking Fund to redeem outstanding shares of Series D Preferred, from the holders on a pro rata basis, at a premium of 15% to the stated value through February 13, 2010, and 20% thereafter.

Immediately after the completion of the transactions contemplated by the Purchase Agreement, the conversion price of the Company's Series B Preferred was adjusted, pursuant to weighted-average anti-dilution provisions, to \$4.67, causing the conversion rate of Series B Preferred into Common Stock to change to approximately 1-to-1.49893. In addition, the exercise prices of the Company's Series B Warrants and Series C Warrants were adjusted, pursuant to weighted-average anti-dilution provisions, to \$6.79 and \$7.20, respectively, from the original exercise prices of \$10.36 and \$11.00. In addition to the adjustment to the exercise prices of the Series B Warrants and the Series C Warrants, the aggregate number of shares issuable upon exercise of the Series B Warrants and the Series C Warrants increased to 3,609,261 and 408,032, respectively, from 2,365,528 and 267,074. Certain other warrants issued prior to the Company's initial public offering were also adjusted pursuant to anti-dilution provisions contained in those warrants such that their per share exercise price reduced from \$2.00 to \$1.48 and the aggregate number of shares of Common Stock issuable increased from approximately 281,042 to approximately 379,787.

Impact of Inflation

We believe that our results of operations are not dependent upon moderate changes in inflation rates.

Impact of Exchange Rate Fluctuations

We believe that our results of operations are somewhat dependent upon changes in foreign currency exchange rates. We have entered into agreements with foreign third parties to produce one of our drug compounds and are required to make payments in the foreign currency. As a result, our financial results could be affected by changes in foreign currency exchange rates. As of December 31, 2008, we are obligated to make payments under these agreements of 916,354 Euros and 39,100 Great British Pounds. We have established means to purchase forward contracts to hedge against this risk.

Off-Balance Sheet Arrangements

We have not entered into any off-balance sheet arrangements.

Item 7A: Quantitative and Qualitative Disclosures About Market Risk

We are exposed to certain market risks, including changes to interest rates, foreign currency exchange rates and equity investment prices. To reduce the volatility related to these exposures, we may enter into various derivative hedging transactions pursuant to our investment and risk management policies. There are inherent risks that may only be partially offset by our hedging programs should there be unfavorable movements in interest rates, foreign currency exchange rates, or equity investment prices.

Interest Rate Risk. Our interest income is sensitive to changes in the general level of domestic interest rates, particularly since our investments are in short-term held to maturity. Due to our intention to hold our investments to maturity, we have concluded that there is no material interest rate risk exposure.

Our revolving credit facility also would have been affected by fluctuations in interest rates as it is based on prime minus 1% or the Federal Funds Effective Rate in effect plus 0.50%. As of December 31, 2008, we had not drawn on this facility.

Foreign Currency Risk. As of December 31, 2008, we have agreements with third parties that require payment in the foreign currency. As a result, our financial results could be affected by changes in foreign currency exchange rates. Currently, the Company's exposure primarily exists with the Euro and the British Pound. As a consequence, movements in exchange rates could cause our foreign currency denominated expenses to fluctuate as a percentage of net revenue, affecting our profitability and cash flows. At this time, our exposure to foreign currency fluctuations is not material.

In addition, the indirect effect of fluctuations in interest rates and foreign currency exchange rates could have a material adverse effect on our business financial condition and results of operations. For example, currency exchange rate fluctuations could affect international demand for our products in the future. Furthermore, interest rate and currency exchange rate fluctuations may broadly influence the United States and foreign economies resulting in a material adverse effect on our business, financial condition and results of operations. As a result, we cannot give any assurance as to the effect that future changes in foreign currency rates will have on our consolidated financial position, results of operations or cash flows.

Item 8: Financial Statements and Supplementary Data

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

Board of Directors and Stockholders of
Cleveland BioLabs, Inc.

We have audited the accompanying balance sheets of CLEVELAND BIOLABS, INC. as of December 31, 2008 and 2007, and the related statements of operations, stockholders' equity and comprehensive income, and cash flows for each of the years in the three-year period ended December 31, 2008. Cleveland BioLabs, Inc.'s management is responsible for these financial statements. 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. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. Our audit included consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion. An audit also includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, 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 financial position of Cleveland BioLabs Inc. as of December 31, 2008 and 2007, and the results of its operations and its cash flows for each of the years in the three-year period ended December 31, 2008 in conformity with accounting principles generally accepted in the United States of America.

MEADEN & MOORE, LTD.
Certified Public Accountants

Cleveland, Ohio
March 27, 2009

CLEVELAND BIOLABS, INC.

BALANCE SHEETS

December 31, 2008 and December 31, 2007

	December 31 2008	December 31 2007
ASSETS		
CURRENT ASSETS		
Cash and equivalents	\$ 299,849	\$ 14,212,189
Short-term investments	1,000,000	1,000,000
Accounts receivable:		
Trade	1,043,821	163,402
Interest	9,488	50,042
Other prepaid expenses	510,707	325,626
Total current assets	2,863,865	15,751,259
EQUIPMENT		
Computer equipment	309,323	258,089
Lab equipment	1,102,465	966,517
Furniture	312,134	274,903
	1,723,922	1,499,509
Less accumulated depreciation	637,840	313,489
	1,086,082	1,186,020
OTHER ASSETS		
Intellectual property	733,051	459,102
Deposits	23,482	25,445
	756,533	484,547
TOTAL ASSETS	\$ 4,706,480	\$ 17,421,826

CLEVELAND BIOLABS, INC.

BALANCE SHEETS

December 31, 2008 and December 31, 2007

	December 31 2008	December 31 2007
LIABILITIES AND STOCKHOLDERS' EQUITY		
CURRENT LIABILITIES		
Accounts payable	\$ 1,101,961	\$ 710,729
Deferred revenue	2,365,312	1,670,610
Dividends payable	321,293	396,469
Accrued expenses	379,653	449,774
Total current liabilities	4,168,219	3,227,582
STOCKHOLDERS' EQUITY		
Series B convertible preferred stock, \$.005 par value		
Authorized - 10,000,000 shares at December 31, 2008 and December 31, 2007		
Issued and outstanding 3,160,974 and 3,870,267 shares at December 31, 2008 and December 31, 2007, respectively		
	15,805	19,351
Additional paid-in capital	19,918,696	24,383,695
Common stock, \$.005 par value		
Authorized - 40,000,000 shares at December 31, 2008 and December 31, 2007		
Issued and outstanding 13,775,805 and 12,899,241 shares at December 31, 2008 and December 31, 2007, respectively		
	68,879	64,496
Additional paid-in capital	36,781,054	30,764,914
Accumulated deficit	(56,246,173)	(41,038,212)
Total stockholders' equity	538,261	14,194,244
TOTAL LIABILITIES AND STOCKHOLDERS' EQUITY	\$ 4,706,480	\$ 17,421,826

CLEVELAND BIOLABS, INC.

STATEMENTS OF OPERATIONS

Years Ended December 31, 2008, 2007, and 2006

	December 31 2008	December 31 2007	December 31 2006
REVENUES			
Contract and Grant	\$ 4,585,597	\$ 1,728,558	\$ 1,503,214
Service	120,000	290,000	205,000
	4,705,597	2,018,558	1,708,214
OPERATING EXPENSES			
Research and development	13,160,812	17,429,652	6,989,804
Selling, general and administrative	5,890,153	10,530,938	2,136,511
Total operating expenses	19,050,965	27,960,590	9,126,315
LOSS FROM OPERATIONS	(14,345,368)	(25,942,032)	(7,418,101)
OTHER INCOME			
Interest income	259,844	1,004,853	206,655
Buffalo relocation reimbursement	220,000	-	-
Sublease revenue	12,475	4,427	-
Gain on disposal of fixed assets	1,394	-	-
Gain on investment	3,292	-	-
Total other income	497,005	1,009,280	206,655
OTHER EXPENSE			
Interest expense	-	1,087	11,198
Corporate relocation	177,564	1,741,609	-
Loss on disposal of fixed assets	-	15,575	-
Loss on investment	-	305,479	-
	177,564	2,063,750	11,198
NET LOSS	(14,025,927)	(26,996,502)	(7,222,644)
DIVIDENDS ON CONVERTIBLE PREFERRED STOCK	(1,182,033)	(1,265,800)	(214,928)
NET LOSS AVAILABLE TO COMMON STOCKHOLDERS	\$ (15,207,960)	\$ (28,262,302)	\$ (7,437,572)
NET LOSS AVAILABLE TO COMMON STOCKHOLDERS PER SHARE OF COMMON STOCK - BASIC AND DILUTED	\$ (1.13)	\$ (2.34)	\$ (0.84)
WEIGHTED AVERAGE NUMBER OF SHARES USED IN CALCULATING NET LOSS PER SHARE, BASIC AND			

DILUTED

13,492,391

12,090,430

8,906,266

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CLEVELAND BIOLABS, INC.
 STATEMENTS OF STOCKHOLDERS' EQUITY AND COMPREHENSIVE LOSS
 Period From January 1, 2006 to December 31, 2008

	Common Stock		Additional Paid-in Capital	Penalty Shares
	Shares	Amount		
Balance at January 1, 2006	6,396,801	31,984	3,338,020	81,125
Issuance of shares - previously accrued penalty shares	54,060	270	80,855	(81,125)
Issuance of shares - stock dividend	184,183	922	367,445	-
Issuance of penalty shares	15,295	76	(76)	-
Issuance of shares - initial public offering	1,700,000	8,500	10,191,500	-
Fees associated with initial public offering	-	-	(1,890,444)	-
Conversion of preferred stock to common stock	3,351,219	16,756	5,291,385	-
Conversion of notes payable to common stock	124,206	621	312,382	-
Issuance of options	-	-	506,078	-
Exercise of options	625	3	2,810	-
Issuance of warrants	-	-	114,032	-
Proceeds from sales of warrants	-	-	110	-
Net loss	-	-	-	-
Other comprehensive income				
Unrealized gains (losses) on short term investments				
Changes in unrealized holding gains (losses)				
arising during period	-	-	-	-
Less reclassification adjustment for (gains) losses				
included in net loss	-	-	-	-
Comprehensive loss				
Balance at December 31, 2006	11,826,389	\$ 59,132	\$ 18,314,097	\$ -
Issuance of options	-	-	3,401,499	-
Options to be issued in 2008	-	-	2,687,355	-
Issuance of shares - Series B financing	-	-	-	-
Fees associated with Series B Preferred offering	-	-	-	-
Issuance of restricted shares	190,000	950	1,699,500	-
Exercise of options	126,046	630	110,650	-
Exercise of warrants	48,063	240	90,275	-
Conversion of Series B Preferred Shares to Common	708,743	3,544	4,461,537	-
Dividends on Series B Preferred shares	-	-	-	-
Net Loss	-	-	-	-
Other comprehensive income				
Unrealized gains (losses) on short term investments				
Changes in unrealized holding gains (losses)				
arising during period	-	-	-	-
Less reclassification adjustment for (gains) losses				
included in net loss	-	-	-	-
Comprehensive loss				
Balance at December 31, 2007	12,899,241	\$ 64,496	\$ 30,764,914	\$ -
Issuance of options	-	-	2,287,803	-
Partial recapture of expense for options expensed in 2007 but issued in 2008	-	-	(1,459,425)	-

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Issuance of restricted shares	130,000	650	625,850	-
Restricted stock awards	-	-	72,722	-
Exercise of options	37,271	186	24,191	-
Conversion of Series B Preferred Shares to Common	709,293	3,547	4,464,999	-
Dividends on Series B Preferred shares	-	-	-	-
Net Loss	-	-	-	-
Other comprehensive income				
Unrealized gains (losses) on short term investments				
Changes in unrealized holding gains (losses)				
arising during period	-	-	-	-
Less reclassification adjustment for (gains) losses				
included in net loss	-	-	-	-
Comprehensive loss				
Balance at December 31, 2008	13,775,805	\$ 68,879	\$ 36,781,054	\$ -

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CLEVELAND BIOLABS, INC.
 STATEMENTS OF STOCKHOLDERS' EQUITY AND COMPREHENSIVE LOSS
 Period From January 1, 2006 to December 31, 2008

	Preferred Stock		Additional Paid-in Capital	Penalty Shares
	Shares	Amount		
Balance at January 1, 2006	3,051,219	15,256	4,932,885	360,000
Issuance of shares - previously accrued penalty shares	240,000	1,200	358,800	(360,000)
Issuance of shares - stock dividend	-	-	-	-
Issuance of penalty shares	60,000	300	(300)	-
Issuance of shares - initial public offering	-	-	-	-
Fees associated with initial public offering	-	-	-	-
Conversion of preferred stock to common stock	(3,351,219)	(16,756)	(5,291,385)	-
Conversion of notes payable to common stock	-	-	-	-
Issuance of options	-	-	-	-
Exercise of options	-	-	-	-
Issuance of warrants	-	-	-	-
Proceeds from sales of warrants	-	-	-	-
Net loss	-	-	-	-
Other comprehensive income				
Unrealized gains (losses) on short term investments				
Changes in unrealized holding gains (losses)				
arising during period	-	-	-	-
Less reclassification adjustment for (gains) losses				
included in net loss	-	-	-	-
Comprehensive loss				
Balance at December 31, 2006	-	\$ -	\$ -	\$ -
Issuance of options	-	-	-	-
Options to be issued in 2008	-	-	-	-
Issuance of shares - Series B financing	4,579,010	22,895	32,030,175	-
Fees associated with Series B Preferred offering	-	-	(3,184,943)	-
Issuance of restricted shares	-	-	-	-
Exercise of options	-	-	-	-
Exercise of warrants	-	-	-	-
Conversion of Series B Preferred Shares to Common	(708,743)	(3,544)	(4,461,537)	-
Dividends on Series B Preferred shares	-	-	-	-
Net Loss	-	-	-	-
Other comprehensive income				
Unrealized gains (losses) on short term investments				
Changes in unrealized holding gains (losses)				
arising during period	-	-	-	-
Less reclassification adjustment for (gains) losses				
included in net loss	-	-	-	-
Comprehensive loss				
Balance at December 31, 2007	3,870,267	\$ 19,351	\$ 24,383,695	\$ -
Issuance of options	-	-	-	-
Partial recapture of expense for options expensed in 2007 but issued in 2008	-	-	-	-

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Issuance of restricted shares	-	-	-	-
Restricted stock awards	-	-	-	-
Exercise of options	-	-	-	-
Conversion of Series B Preferred Shares to Common	(709,293)	(3,547)	(4,464,999)	-
Dividends on Series B Preferred shares	-	-	-	-
Net Loss	-	-	-	-
Other comprehensive income				
Unrealized gains (losses) on short term investments				
Changes in unrealized holding gains (losses)				
arising during period	-	-	-	-
Less reclassification adjustment for (gains) losses				
included in net loss	-	-	-	-
Comprehensive loss				
Balance at December 31, 2008	3,160,974	\$ 15,805	\$ 19,918,696	\$ -

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CLEVELAND BIOLABS, INC.
 STATEMENTS OF STOCKHOLDERS' EQUITY AND COMPREHENSIVE LOSS
 Period From January 1, 2006 to December 31, 2008

	Other Comprehensive Income/(Loss)	Accumulated Deficit	Total	Comprehensive Income (Loss)
Balance at January 1, 2006	(17,810)	(5,184,856)	3,556,604	
Issuance of shares - previously accrued penalty shares	-	-	-	
Issuance of shares - stock dividend	-	(368,410)	(43)	
Issuance of penalty shares	-	-	-	
Issuance of shares - initial public offering	-	-	10,200,000	
Fees associated with initial public offering	-	-	(1,890,444)	
Conversion of preferred stock to common stock	-	-	-	
Conversion of notes payable to common stock	-	-	313,003	
Issuance of options	-	-	506,078	
Exercise of options	-	-	2,813	
Issuance of warrants	-	-	114,032	
Proceeds from sales of warrants	-	-	110	
Net loss	-	(7,222,644)	(7,222,644)	(7,222,644)
Other comprehensive income				
Unrealized gains (losses) on short term investments				
Changes in unrealized holding gains (losses) arising during period	6,678	-	6,678	\$ 6,678
Less reclassification adjustment for (gains) losses included in net loss	6,967	-	6,967	\$ 6,967
Comprehensive loss				\$ (7,208,999)
Balance at December 31, 2006	\$ (4,165)	\$ (12,775,910)	\$ 5,593,154	
Issuance of options	-	-	3,401,499	
Options to be issued in 2008	-	-	2,687,355	
Issuance of shares - Series B financing	-	-	32,053,070	
Fees associated with Series B Preferred offering	-	-	(3,184,943)	
Issuance of restricted shares	-	-	1,700,450	
Exercise of options	-	-	111,280	
Exercise of warrants	-	-	90,515	
Conversion of Series B Preferred Shares to Common	-	-	-	
Dividends on Series B Preferred shares	-	(1,265,800)	(1,265,800)	
Net Loss	-	(26,996,502)	(26,996,502)	(26,996,502)
Other comprehensive income				
Unrealized gains (losses) on short term investments				
Changes in unrealized holding gains (losses) arising during period	-	-	-	\$ -
Less reclassification adjustment for (gains) losses included in net loss	4,165	-	4,165	\$ 4,165
Comprehensive loss				\$ (26,992,337)

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Balance at December 31, 2007	\$	-	\$ (41,038,212)	\$ 14,194,244
Issuance of options		-	-	2,287,803
Partial recapture of expense for options expensed in 2007 but issued in 2008		-	-	(1,459,425)
Issuance of restricted shares		-	-	626,500
Restricted stock awards		-	-	72,722
Exercise of options		-	-	24,378
Conversion of Series B Preferred Shares to Common		-	-	(0)
Dividends on Series B Preferred shares		-	(1,182,033)	(1,182,033)
Net Loss		-	(14,025,927)	(14,025,927)
Other comprehensive income				
Unrealized gains (losses) on short term investments				
Changes in unrealized holding gains (losses) arising during period		-	-	- \$ -
Less reclassification adjustment for (gains) losses included in net loss		-	-	- \$ -
Comprehensive loss				\$ (14,025,927)
Balance at December 31, 2008	\$	-	\$ (56,246,172)	\$ 538,261

CLEVELAND BIOLABS, INC.

STATEMENTS OF CASH FLOWS

For the Years Ended December 31, 2008, 2007 and 2006

	2008	2007	2006
CASH FLOWS FROM OPERATING ACTIVITIES			
Net loss	\$ (14,025,927)	\$ (26,996,502)	\$ (7,222,644)
Adjustments to reconcile net loss to net cash used by operating activities:			
Depreciation	324,351	188,395	94,931
Noncash interest expense	-	-	9,929
Noncash salaries and consulting expense	1,527,600	7,789,305	620,119
Deferred compensation	-	-	5,886
Loss on disposal of fixed assets	-	15,575	-
Loss on investments	-	305,479	-
Loss on abandoned patents	60,045	-	-
Changes in operating assets and liabilities:			
Accounts receivable - trade	(880,419)	(3,652)	(159,750)
Accounts receivable - interest	40,553	(12,870)	(5,616)
Prepaid expenses	(185,081)	109,049	(422,427)
Deposits	1,963	(10,390)	(3,750)
Accounts payable	391,232	65,923	380,023
Deferred revenue	694,702	1,670,610	(100,293)
Accrued expenses	(70,121)	321,206	99,990
Milestone payments	-	(50,000)	50,000
Total adjustments	1,904,825	10,388,630	569,042
Net cash (used by) provided by operating activities	(12,121,102)	(16,607,872)	(6,653,602)
CASH FLOWS FROM INVESTING ACTIVITIES			
Purchase of short-term investments	(2,000,000)	(1,000,000)	(4,800,000)
Sale of short-term investments	2,000,000	2,000,000	5,200,000
Issuance of notes receivable	-	(250,000)	(50,000)
Purchase of equipment	(224,413)	(987,649)	(187,660)
Sale of equipment	-	1,250	-
Costs of patents pending	(333,994)	(206,124)	(176,621)
Net cash (used in) provided by investing activities	(558,407)	(442,523)	(14,281)
CASH FLOWS FROM FINANCING ACTIVITIES			

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Issuance of preferred stock	-	30,020,984	-
Financing costs	-	(1,152,857)	(1,679,456)
Dividends	(1,257,209)	(869,331)	(43)
Issuance of common stock	-	-	10,200,000
Exercise of stock options	24,378	111,280	2,813
Exercise of warrants	-	90,515	-
Issuance of warrants	-	-	100
Net cash (used in) provided by financing activities	(1,232,831)	28,200,591	8,523,414
INCREASE (DECREASE) IN CASH AND EQUIVALENTS	(13,912,340)	11,150,196	1,855,531
CASH AND EQUIVALENTS AT BEGINNING OF PERIOD	14,212,189	3,061,993	1,206,462
CASH AND EQUIVALENTS AT END OF PERIOD	\$ 299,849	\$ 14,212,189	\$ 3,061,993
Supplemental disclosures of cash flow information:			
Cash paid during the period for interest	\$ -	\$ 1,087	\$ 1,269
Cash paid during the year for income taxes	\$ -	\$ -	\$ -
Supplemental schedule of noncash financing activities:			
Issuance of stock options to employees, consultants, and independent board members	\$ 2,287,803	\$ 3,401,499	\$ 506,078
Expense recapture for expense for options expensed in 2007 but issued in 2008	\$ (1,459,425)	\$ -	\$ -
Stock options due to employees and a consultant	\$ -	\$ 2,687,355	\$ -
Issuance of shares to consultants and employees	\$ 626,500	\$ 1,700,450	\$ 368,367
Amortization of restricted shares to be issued to employees and consultants	\$ 72,722	\$ -	\$ -
Issuance of non-cash financing fees	\$ -	\$ 2,032,086	\$ -
Conversion of preferred stock to common stock	\$ 4,468,546	\$ 4,465,081	\$ 5,308,141
Accrual of preferred stock dividends	\$ 321,293	\$ 396,469	\$ -
Issuance of warrants to consultant	\$ -	\$ -	\$ 114,042
Conversion of notes payable and accrued interest to common stock	\$ -	\$ -	\$ 313,003

CLEVELAND BIOLABS, INC.

NOTES TO FINANCIAL STATEMENTS

Note 1. Organization

Cleveland BioLabs, Inc. (“CBLI” or the “Company”) is engaged in the discovery, development and commercialization of products for cancer treatment and protection of normal tissues from radiation and other stresses. The Company was incorporated under the laws of the State of Delaware on June 5, 2003 and is headquartered in Buffalo, New York.

The Company’s financial statements have been prepared on the accrual basis of accounting in accordance with accounting principles generally accepted in the United States of America and on a going concern basis which contemplates the realization of assets and the liquidation of liabilities in the ordinary course of business. The Company has incurred substantial losses from operations and it has a working capital deficit which raises a question about its ability to continue as a going concern. The Company sustained a net loss of \$14,025,927 for the fiscal year ended December 31, 2008 and it had a working capital deficit of \$1,304,354 at December 31, 2008.

The Company plans to secure additional financing to sustain operations by issuing additional preferred shares and exploring individual investment or licensing arrangements. Subsequent to year-end, the Company has raised approximately \$4,300,000 from the issuance of additional preferred shares (see Note 8 for details). The Company also plans to submit proposals for government contracts and grants over the next two years totaling over \$30 million. Many of the proposals will be submitted to government agencies that have awarded contracts and grants to the Company in the recent past. Finally, the Company plans to incur costs only on R&D projects that are properly funded, either through a government contract or grant or other capital sources such as direct investment.

Note 2. Summary of Significant Accounting Policies

A. Cash and Equivalents - The Company considers highly liquid investments with a maturity date of three months or less to be cash equivalents. In addition, the Company maintains cash and equivalents at financial institutions, which may exceed federally insured amounts at times and which may, at times, significantly exceed balance sheet amounts due to outstanding checks.

B. Marketable Securities and Short Term Investments - The Company considers investments with a maturity date of more than three months to be short-term investments and has classified these securities as available-for-sale. Such investments are carried at fair value, with unrealized gains and losses included as accumulated other comprehensive income (loss) in stockholders' equity. The cost of available-for-sale securities sold is determined based on the specific identification method.

C. Accounts Receivable - The Company extends unsecured credit to customers under normal trade agreements, which generally require payment within 30 days. Management estimates an allowance for doubtful accounts which is based upon management's review of delinquent accounts and an assessment of the Company's historical evidence of collections. There is no allowance for doubtful accounts as of December 31, 2008 and December 31, 2007.

D. Equipment - Equipment is stated at cost and depreciated over the estimated useful lives of the assets (generally five years) using the straight-line method. Leasehold improvements are depreciated on the straight-line method over the shorter of the lease term or the estimated useful lives of the assets. Expenditures for maintenance and repairs are charged to expense as incurred. Major expenditures for renewals and betterments are capitalized and depreciated. Depreciation expense was \$324,351, \$188,395, and \$94,931 for the years ended December 31, 2008, 2007 and 2006, respectively

E. Impairment of Long-Lived Assets - In accordance with Statements of Financial Accounting Standards, or SFAS, No. 144, Accounting for the Impairment or Disposal of Long-Lived Assets, long-lived assets to be held and used, including equipment and intangible assets subject to depreciation and amortization, are reviewed for impairment at least annually and whenever events or changes in circumstances indicate that the carrying amounts of the assets or related asset group may not be recoverable. Determination of recoverability is based on an estimate of discounted future cash flows resulting from the use of the asset and its eventual disposition. In the event that such cash flows are not expected to be sufficient to recover the carrying amount of the asset or asset group, the carrying amount of the asset is written down to its estimated net realizable value.

F. Intellectual Property - The Company capitalizes the costs associated with the preparation, filing, and maintenance of patent applications relating to intellectual property. If the patent applications are approved, costs paid by the Company associated with the preparation, filing, and maintenance of the patents will be amortized on a straight-line basis over the shorter of 20 years or the anticipated useful life of the patent. If the patent application is not approved, the costs associated the patent application will be expensed as part of selling, general and administrative expenses at that time. Capitalized intellectual property is reviewed annually for impairment.

A portion of this intellectual property is owned by the Cleveland Clinic Foundation, or CCF, and granted to the Company through an exclusive licensing agreement. As part of the licensing agreement, CBLI agrees to bear the costs associated with the preparation, filing and maintenance of patent applications relating to this intellectual property. Gross capitalized patents pending costs were \$629,363 and \$407,425 for thirteen patent applications as of December 31, 2008 and December 31, 2007, respectively. All of the CCF patent applications are still pending approval. During 2008, the Company abandoned one patent application due to developing another drug for the same application and expensed \$44,790 in selling, general and administrative expenses.

The Company also has submitted five patent applications as a result of intellectual property exclusively developed and owned by the Company. Gross capitalized patents pending costs were \$103,688 and \$51,677 for five patent applications as of December 31, 2008 and December 31, 2007, respectively. The patent applications are still pending approval. During 2008, the Company abandoned one patent application due to discovering that the patent would provide no future economic benefit and expensed \$15,256 in selling, general and administrative expenses.

G. Line of Credit - The Company has a working capital line of credit that is fully secured by short-term investments. This fully-secured, working capital line of credit carries an interest rate of prime minus 1%, a borrowing limit of \$1,000,000, and expires on September 25, 2009. At December 31, 2008 and 2007, there were no outstanding borrowings under this credit facility.

H. Fair Value of Financial Instruments - Financial instruments, including cash and equivalents, accounts receivable, notes receivable, accounts payable and accrued liabilities, are carried at net realizable value.

In September 2006, The Financial Accounting Standards Board ("FASB") issued Statement of Financial Accounting Standards ("SFAS") No. 157, "Fair Value Measurements." SFAS No. 157 provides enhanced guidance for using fair value to measure assets and liabilities and expands disclosure with respect to fair value measurements. This statement was originally effective for fiscal years beginning after November 15, 2007. In February 2008, the FASB issued FSP157-2 which allows companies to elect a one-year deferral of adoption of SFAS No. 157 for non-recurring assets and non-financial liabilities that are recognized or disclosed at fair value in the financial statements on a non-recurring basis. The Company has adopted SFAS No. 157 as of January 1, 2008.

SFAS No. 157 establishes a valuation hierarchy for disclosure of the inputs to valuation used to measure fair value. This hierarchy prioritizes the inputs into three broad levels as follows: Level 1 inputs are quoted prices (unadjusted) in active markets for identical assets or liabilities; Level 2 inputs are quoted prices for similar assets and liabilities in active markets or inputs that are observable for the asset or liability, either directly or indirectly; and Level 3 inputs are unobservable inputs in which little or no market data exists, therefore requiring a company to develop its own assumptions. The Company does not have any significant assets or liabilities measured at fair value using Level 1 or Level 3 inputs as of December 31, 2008.

I. Use of Estimates - The preparation of financial statements in conformity with accounting principles generally accepted in the U.S. requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. The Company bases its estimates on historical experience and on various other assumptions that the Company believes to be reasonable under these

circumstances. Actual results could differ from those estimates.

J. Revenue Recognition - The Company recognizes revenue in accordance with Staff Accounting Bulletin No. 104, "Revenue Recognition", or SAB 104, and Statement of Financial Accounting Standards No. 116, or SFAS 116. Revenue sources consist of government grants, government contracts and commercial development contracts.

Revenues from government grants and contracts are for research and development purposes and are recognized in accordance with the terms of the award and the government agency per SAB 104. Grant revenue is recognized in one of two different ways depending on the grant. Cost reimbursement grants require us to submit proof of costs incurred that are invoiced by us to the government agency, which then pays the invoice. In this case, grant revenue is recognized during the period that the costs were incurred according to the terms of the government grant. Fixed cost grants require no proof of costs at the time of invoicing, but proof is required for audit purposes and grant revenue is recognized during the period that the costs were incurred according to the terms of the government grant. The grant revenue under these fixed costs grants is recognized using a percentage-of-completion method, which uses assumptions and estimates. These assumptions and estimates are developed in coordination with the principal investigator performing the work under the government fixed-cost grants to determine key milestones, expenses incurred, and deliverables to perform a percentage-of-completion analysis to ensure that revenue is appropriately recognized. Critical estimates involved in this process include total costs incurred and anticipated to be incurred during the remaining life of the grant.

Government contract revenue is recognized as allowable research and development expenses are incurred during the period and according to the terms of the government contract. The Company has recognized grant revenue from the following agencies: the Department of Defense (DoD), the Defense Threat Reduction Agency (DTRA), the Defense Advanced Research Projects Agency (DARPA), National Aeronautics and Space Administration (NASA), the National Institutes of Health (NIH) and the Department of Health and Human Services (HHS).

The Company recognizes revenue related to the funds received from the State of New York under the sponsored research agreement with the Roswell Park Cancer Institute (RPCI) in accordance with SFAS 116. The principles of SFAS 116 result in the recognition of revenue as allowable costs are incurred. The Company recognizes revenue on research laboratory services and the subsequent use of related equipment. The amount paid as a payment toward future services related to the equipment is recognized as a prepaid asset and will be recognized as revenue as the services are performed and the prepaid asset is recognized as expense.

Commercial development revenues are recognized when the service or development is delivered.

K. Deferred Revenue – Deferred revenue results when payment is received in advance of revenue being earned. The Company makes a determination as to whether the revenue has been earned by applying a percentage-of-completion analysis to compute the need to recognize deferred revenue. The percentage of completion method is based upon (1) the total income projected for the project at the time of completion and (2) the expenses incurred to date. The percentage-of-completion can be measured using the proportion of costs incurred versus the total estimated cost to complete the contract.

The Company received \$2,000,000 in funds from the State of New York through the Roswell Park Cancer Institute ("RPCI") during the second quarter of 2007. The Company received an additional \$1,000,000 in funds from the State of New York through the RPCI during the second quarter of 2008. The Company is recognizing this revenue over the terms and conditions of the sponsored research agreement. The Company recognizes revenue on research laboratory services and the purchase and subsequent use of related equipment. The amount paid as a payment toward future services related to the equipment is recognized as a prepaid asset and will be recognized as revenue as the services are performed.

The following table summarizes the deferred revenue activity for the years ended December 31, 2008 and December 31, 2007, respectively:

	Activity
Beginning Balance, December 31, 2007	\$ 1,670,610
Funds Received From State of NY	\$ 1,000,000
Funds Recognized as Revenue	\$ (305,298)
Ending Balance, December 31, 2008	\$ 2,365,312

	Activity
Beginning Balance, December 31, 2006	\$ -
Funds Received From State of NY	\$ 2,000,000
Funds Recognized as Revenue	\$ (329,390)
Ending Balance, December 31, 2007	\$ 1,670,610

L. Research and Development - Research and development expenses consist primarily of costs associated with salaries and related expenses for personnel, costs of materials used in research and development, costs of facilities and costs incurred in connection with third-party collaboration efforts. Expenditures relating to research and development are expensed as incurred.

M. 2006 Equity Incentive Plan - On May 26, 2006, the Company's Board of Directors adopted the 2006 Equity Incentive Plan ("Plan") to attract and retain persons eligible to participate in the Plan, motivate participants to achieve long-term Company goals, and further align participants' interests with those of the Company's other stockholders. The Plan expires on May 26, 2016 and the aggregate number of shares of stock which may be delivered under the Plan shall not exceed 2,000,000 shares. On February 14, 2007, these 2,000,000 shares were registered with the SEC by filing a Form S-8 registration statement. On April 29, 2008, the stockholders of the Company approved an amendment and restatement of the Plan (the "Amended Plan"). The Amended Plan increases the number of shares available for issuance by an additional 2,000,000 shares, clarifies other aspects of the 2006 Plan, and contains updates that reflect changes and developments in federal tax laws. As of December 31, 2008 there were 1,702,721 stock options and 235,000 shares granted under the Amended Plan and 18,053 forfeited leaving 2,080,332 shares of stock to be awarded under the Amended Plan.

N. Executive Compensation Plan - On May 11, 2007, the Compensation Committee (the "Compensation Committee") of the Board of Directors approved an executive compensation program designed to reward each of the Company's Chief Executive Officer, Chief Operating Officer, Chief Financial Officer and Chief Scientific Officer (the "Executive Officers") for the achievement of certain pre-determined milestones. The purpose of the program is to link each Executive Officer's compensation to the achievement of key Company milestones that the Compensation Committee believes have a strong potential to create long-term stockholder value.

Under the terms of this program, after each fiscal year beginning with the fiscal year ended December 31, 2007, each component of our Executive Officers' compensation packages - base salary, cash bonus and stock option awards - will be measured against the Company's achievement of (1) stock performance milestones, (2) scientific milestones, (3) business milestones and (4) financial milestones, each of which will be weighted equally. The milestones will be set at the beginning of each fiscal year. Each set of milestones has a minimum threshold performance level, a target level and a high performance level. For base salary, increases will range between 2% for threshold performance to 6% for high performance. For cash bonuses, increases will range between 15% for threshold performance and 60% for high performance. For stock option awards, awards will range between 50,000 stock options for threshold performance and 300,000 for high performance.

For the year ended December 31, 2008 the Compensation Committee awarded no cash bonuses or stock option awards under the Executive Compensation Plan. For 2007, the Compensation Committee awarded \$185,288 in cash bonuses and expensed \$2,687,355 in non-cash, stock-based compensation for the stock options to be awarded by the Compensation Committee and issued in the subsequent year. In 2008, \$1,459,425 of this non-cash, stock-based compensation was recaptured as discussed in note O below.

O. Stock-Based Compensation - The FASB issued SFAS No. 123(R) (revised December 2004), Share Based Payment, which is a revision of SFAS No. 123 Accounting for Stock-Based Compensation. SFAS 123(R) requires all share-based payments to employees, including grants of employee stock options, to be recognized in the statement of operations based on their fair values. The Company values employee stock-based compensation under the provisions of SFAS 123(R) and related interpretations.

The fair value of each stock option granted is estimated on the grant date. The Black Scholes model is used for standard stock options, but if market conditions are present within the stock options, the Company utilizes Monte Carlo simulation to value the stock options. The assumptions used to calculate the fair value of options granted are evaluated and revised, as necessary, to reflect the Company's experience. The Company uses a risk-free rate published by the St. Louis Federal Reserve at the time of the option grant, assumes a forfeiture rate of zero, assumes an expected dividend yield rate of zero based on the Company's intent not to issue a dividend in the foreseeable future, uses an expected life based on the safe harbor method, and computes an expected volatility based on similar high-growth, publicly-traded, biotechnology companies. In 2008, the Company began to include the use of its own stock in the volatility calculation and is layering in the volatility of the stock of the Company with that of comparable companies since there is not an adequate trading history to rely solely on the Company's volatility. The Company recognizes the fair value of stock-based compensation in net income on a straight-line basis over the requisite service period.

The assumptions used to value these option and warrant grants using the Black-Scholes option valuation model are as follows:

	2008	2007	2006
Risk-free interest rate	2.43-3.58%	3.38-5.11%	4.66-5.04%
Expected dividend yield	0%	0%	0%
Expected life	5-6 years	2.74-6 years	5 years
Expected volatility	64.25-82.47%	71.86-76.29%	71.43-75.11%

During the year ended December 31, 2008, the Company granted 997,721 stock options pursuant to stock award agreements. The Company recognized a total of \$2,287,803 in expense related to stock options granted for the year ended December 31, 2008. The Company also recaptured \$1,459,425 of previously recognized expense relating to the stock options awarded under the 2007 Executive Compensation Plan. These options were originally expensed based on the December 31, 2007 variables, but were not issued until February 4, 2008. The change in dates resulted in a difference in valuation assumptions used in the Black-Scholes model causing a reduction in the grant date fair value. This reduction in the grant date fair value from \$5.34 to \$2.58 per share resulted in the recapture of \$1,459,425 in expense and a net expense for options granted for the year ended December 31, 2008 of \$828,377.

The Company issued 997,721, 660,000 and 161,750 stock options during the years ended December 31, 2008, 2007, and 2006, respectively, pursuant to various stock award agreements. The Company recognized a total of \$828,377, \$3,401,499, and \$506,078 in expense related to options for the years ended December 31, 2008, 2007, and 2006, respectively. The weighted average, estimated grant date fair values of stock options granted was \$3.16, \$6.08, and \$3.14 during the years ended December 31, 2008, 2007, and 2006, respectively.

The following tables summarize the stock option activity for the years ended December 31, 2008 and December 31, 2007, respectively.

	Shares	Weighted Average Exercise Price per Share	Weighted Average Remaining Contractual Term (in Years)
Outstanding, December 31, 2007	1,011,740	\$ 7.29	
Granted	997,721	\$ 3.16	
Exercised	42,534	\$ 1.04	
Forfeited, Canceled	18,053	\$ 9.00	
Outstanding, December 31, 2008	1,948,874	\$ 6.17	8.53
Exercisable, December 31, 2008	1,597,837	\$ 5.52	8.50

	Shares	Weighted Average Exercise Price per Share	Weighted Average Remaining Contractual Term (in Years)
Outstanding, December 31, 2006	483,490	\$ 2.17	
Granted	660,000	\$ 9.85	
Exercised	131,750	\$ 1.34	
Forfeited, Canceled	0	n/a	
Outstanding, December 31, 2007	1,011,740	\$ 7.29	8.80
Exercisable, December 31, 2007	646,930	\$ 6.89	8.75

The table summarizing the stock option activity for the year ended December 31, 2008 indicates 42,534 shares exercised. This figure includes 5,263 shares used to compensate the Company for a cashless stock option exercise and therefore, were surrendered instead of issued.

For the year ended December 31, 2008, the Company recognized a total of \$626,500 in expense for shares issued under the Amended Plan and a total of \$72,722 in expense related to the amortization of restricted shares. For the year ended December 31, 2007 the Company recognized a total of \$1,700,450 in expense for shares issued under the Plan to various consultants. During the year ended December 31, 2006, there was no compensation expense related to share issuance because there were no shares issued for compensation.

P. Net Loss Per Share - Basic and diluted net loss per share has been computed using the weighted-average number of shares of common stock outstanding during the period.

The following table presents the calculation of basic and diluted net loss per share for the years ended December 31, 2008, 2007 and 2006:

	2008	2007	2006
Net loss available to common stockholders	\$ (15,207,960)	\$ (28,262,302)	\$ (7,437,572)
Net loss per share, basic and diluted	\$ (1.13)	\$ (2.34)	\$ (0.84)
Weighted-average shares used in computing net loss per share, basic and diluted	13,492,391	12,090,430	8,906,266

The Company has excluded all outstanding warrants and options from the calculation of diluted net loss per share because all such securities are antidilutive for all applicable periods presented.

The total number of shares excluded from the calculations of diluted net loss per share, prior to application of the treasury stock method for warrants, was 3,453,268, 3,453,268, and 814,424 for the years ended December 31, 2008, 2007 and 2006, respectively. Such securities, had they been dilutive, would have been included in the computation of diluted earnings per share.

The total number of shares excluded from the calculations of diluted net loss per share, prior to the application of the treasury stock method for options, was 1,948,874, 1,011,740, and 483,490 for the years ended December 31, 2008, 2007 and 2006, respectively. Such securities, had they been dilutive, would have been included in the computation of diluted earnings per share.

Q. Concentrations of Risk - Grant revenue accounted for 97.4%, 85.6% and 88.0% for the year ended December 31 2008, 2007 and 2006, respectively. Although the Company anticipates ongoing federal government contract and grant revenue, there is no guarantee that this revenue stream will continue in the future.

Financial instruments that potentially subject us to a significant concentration of credit risk consist primarily of cash and cash equivalents and securities available-for-sale. The Company maintains deposits in federally insured institutions in excess of federally insured limits. The Company does not believe it is exposed to significant credit risk due to the financial position of the depository institutions in which those deposits are held. Additionally, the Company has established guidelines regarding diversification of its investment portfolio and maturities of investments, which are designed to meet safety and liquidity.

R. Foreign Currency Exchange Rate Risk - The Company has entered into a manufacturing agreement to produce one of its drug compounds and into an agreement for assay development and validation with foreign third parties and is required to make payments in the foreign currency. As a result, the Company's financial results could be affected by changes in foreign currency exchange rates. Currently, the Company's exposure primarily exists with the Euro and the British Pound, or GBP. As of December 31, 2008, the Company is obligated to make payments under the agreements of 916,354 Euros and 39,100 GBP. As of December 31, 2008, the Company has not purchased any forward contracts for Euros or GBP and, therefore, at December 31, 2008, had foreign currency commitments of \$1,275,473 for Euros and \$46,635 for GBP given prevailing currency exchange spot rates..

S. Comprehensive Income/(Loss) - The Company applies Statement of Financial Accounting Standards (SFAS) No. 130, "Reporting Comprehensive Income." SFAS No. 130 requires disclosure of all components of comprehensive income on an annual and interim basis. Comprehensive income is defined as the change in equity of a business

enterprise during a period from transactions and other events and circumstances from non-owner sources.

T. Segment Reporting – As of December 31, 2008, the Company has determined that it operates in only one segment. Accordingly, no segment disclosures have been included in the notes to the consolidated financial statements.

U. Recently Issued Accounting Pronouncements – In June 2008, the Financial Accounting Standards Board ("FASB") issued EITF Issue No. 07-5 ("EITF 07-5"), Determining whether an Instrument (or Embedded Feature) is indexed to an Entity's Own Stock. EITF No. 07-5 is effective for financial statements issued for fiscal years beginning after December 15, 2008, and interim periods within those fiscal years. Early application is not permitted. Paragraph 11(a) of SFAS No. 133 - specifies that a contract that would otherwise meet the definition of a derivative but is both (a) indexed to the Company's own stock and (b) classified in stockholders' equity in the statement of financial position would not be considered a derivative financial instrument. EITF 07-5 provides a new two-step model to be applied in determining whether a financial instrument or an embedded feature is indexed to an issuer's own stock and thus able to qualify for the SFAS No. 133 paragraph 11(a) scope exception. The adoption of EITF 07-5 is not anticipated to materially impact the Company's financial statements.

In June 2008, the FASB issued EITF 08-4, "Transition Guidance for Conforming Changes to Issue No. 98-5." The objective of EITF 08-4 is to provide transition guidance for conforming changes made to EITF No. 98-5, "Accounting for Convertible Securities with Beneficial Conversion Features or Contingently Adjustable Conversion Ratios," that result from EITF No. 00-27 "Application of Issue No. 98-5 to Certain Convertible Instruments," and SFAS 150, "Accounting for Certain Financial Instruments with Characteristics of both Liabilities and Equity." This Issue is effective for financial statements issued for fiscal years ending after December 15, 2008. Early application is permitted. Management is currently evaluating the impact of adoption of EITF 08-4.

In May 2008, the FASB issued SFAS No. 162, "The Hierarchy of Generally Accepted Accounting Principles" ("SFAS 162"). SFAS No. 162 identifies the sources of accounting principles and the framework for selecting the principles to be used in the preparation of financial statements of nongovernmental entities that are presented in conformity with GAAP. Effective December 31, 2008, the Company adheres to SFAS No. 162, which did not have any impact on the Company's financial statements.

In March 2008, the FASB issued SFAS No. 161, "Disclosures about Derivative Instruments and Hedging Activities, an amendment of FASB Statement No. 133," which requires additional disclosures about the objectives of using derivative instruments, the method by which the derivative instruments and related hedged items are accounted for under FASB Statement No. 133 and its related interpretations, and the effect of derivative instruments and related hedged items on financial position, financial performance and cash flows. SFAS No. 161 also requires disclosure of the fair values of derivative instruments and their gains and losses in a tabular format. SFAS No. 161 will be effective for the Company on January 1, 2009. The Company does not expect that the adoption of SFAS No. 161 will have a material impact on its consolidated financial statement disclosures.

In December 2007, the FASB issued SFAS No. 141 (revised 2007), or SFAS No. 141R, "Business Combinations" and SFAS No. 160, "Noncontrolling Interests in Consolidated Financial Statements, an amendment of Accounting Research Bulletin No. 51." SFAS 141R will change how business acquisitions are accounted for and will impact financial statements both on the acquisition date and in subsequent periods. SFAS No. 160 will change the accounting and reporting for minority interests, which will be recharacterized as noncontrolling interests and classified as a component of equity. SFAS No. 141R and SFAS No. 160 are effective for the Company on January 1, 2009. Early adoption is not permitted. The Company does not expect that the adoption of SFAS No. 141R and SFAS No. 160 will have will have a material impact on its consolidated financial statements.

In December 2007, the FASB ratified the consensus reached in Emerging Issue Task Force, or EITF, Issue No. 07-1, "Collaborative Arrangements". EITF Issue No. 07-1 defines collaborative arrangements and establishes reporting requirements for transactions between participants in a collaborative arrangement and between participants in the arrangements and third parties. Under EITF Issue No. 07-1, payments between participants pursuant to a collaborative arrangement that are within the scope of other authoritative accounting literature on income statement classification should be accounted for using the relevant provisions of that literature. If the payments are not within the scope of other authoritative accounting literature, the income statement classification for the payments should be based on an analogy to authoritative accounting literature or if there is no appropriate analogy, a reasonable, rational, and consistently applied accounting policy election. EITF Issue No. 07-1 also provides disclosure requirements and is effective for the Company on January 1, 2009. The effect of applying EITF Issue No. 07-1 will be reported as a change in accounting principle through retrospective applications to all prior periods presented for all collaborative arrangements existing as of the effective date, unless it is impracticable. The Company does not expect the adoption of EITF Issue No. 07-1 will have a material impact on its financial statements.

Note 3. Significant Alliances and Related Parties

The Cleveland Clinic Foundation

Effective July 2004, the Company entered into a strategic alliance with CCF. Under the agreement, the Company received an exclusive license to use CCF licensed patents and CCF technology for the benefit of the Company for research and drug development. The Company has primary responsibility to fund all newly developed patents; however, CCF retains patent ownership on those contained in the agreement. The Company also has the responsibility to secure applicable regulatory approvals. In partial consideration of this agreement, in December 2004, the Company issued 1,341,000 shares of its common stock to CCF and recognized \$2,250,000 as non-cash research and development expense in exchange for the stock. The calculation of this expense was based in part on an estimate of the Company's value based on discussions in 2004 with potential investors, in which the Company was estimated to have a value of approximately \$12,500,000. This valuation was reflected in an agreement between the Company and an investment bank dated September 30, 2004. This agreement set forth the terms on which the investment bank was to raise equity capital for the Company. In light of the preliminary and subjective nature of that estimate, the Company discounted that estimate to arrive at a valuation of \$10,000,000.

CCF will receive milestone payments for each product developed with CCF technology as development passes through major developmental stages. In addition, the Company will pay CCF royalties and sublicense royalties as a percentage of net sales of all commercial products developed with CCF technology. Milestone payments amounted to \$50,000, \$300,000, and \$0 for the years ended December 31, 2008, 2007, and 2006, respectively.

The Company also incurred \$518,904, \$927,347, and \$1,142,290 in subcontract expense to CCF related to research grants and other agreements for the years ended December 31, 2008, 2007 and 2006, respectively. The balance remaining in accrued payables is \$15,209, \$70,539 and \$7,309 at December 31, 2008, 2007 and 2006, respectively. Finally, the Company recognized a balance of \$0, \$10,227 and \$0 in accounts receivable at December 31, 2008, 2007 and 2006, respectively.

Roswell Park Cancer Institute

In January 2007, the Company entered into a sponsored research agreement with RPCI to develop the Company's cancer and radioprotectant drug candidates. The Company received \$2,000,000 in funds from RPCI during the second quarter of 2007 and received an additional \$1,000,000 in the second quarter of 2008. This money was funded by the State of New York as part of an incentive package for the Company to relocate and establish a major research/clinical facility in Buffalo, New York. The Company has an open-ended license to any intellectual property resulting from any basic research conducted within, or in collaboration with RPCI.

The Company also incurred \$1,120,571 \$414,389, and \$0 in subcontract expense to RPCI related to research grants and agreements for the years ended December 31, 2008, 2007 and 2006, respectively. The balance remaining in accrued payables is \$174,693 and \$16,190 at December 31, 2008 and 2007, respectively.

ChemBridge Corporation

In April 2004, ChemBridge Corporation acquired 357,600 shares of the Company's common stock valued at \$6,081 (subject to antidilution provisions for future equity issues) and holds warrants to purchase an additional 264,624 shares of the Company's common stock for \$1.13 per share. The warrants expire in April 2010. Under the agreement, ChemBridge has agreed to provide chemical technology and expertise for the benefit of the Company for research and drug development.

In April 2004, the Company entered into a chemical libraries license agreement with ChemBridge. Under the terms of the agreement, the Company has a non-exclusive worldwide license to use certain chemical compound libraries for drug research conducted on its own or in collaboration with others. In return, ChemBridge will receive royalty payments on any revenue received by the Company for all contracts, excluding CCF, in which the libraries are used. No revenues or royalties are due or have been paid through the year ended December 31, 2008.

The Company has also agreed to collaborate with ChemBridge on two optimization projects, wherein ChemBridge will have the responsibility of providing the chemistry compounds of the project and the Company will have the responsibility of providing the biological expertise. ChemBridge will retain a 50% ownership interest in two selected “confirmed hits” that make up the optimization projects. The parties will jointly manage the development and commercialization of any compounds arising from an optimization project. No “confirmed hits” have been selected during the year ended December 31, 2008.

In addition, the Company paid ChemBridge \$916, \$41,780, and \$29,910 for the purchase of chemical compounds in the normal course of business in 2008, 2007 and 2006, respectively.

Cooperative Research and Development Agreement

In August 2004, the Company entered into a five-year cooperative research and development agreement (CRADA) with the Uniformed Service University of the Health Sciences, which includes the Armed Forces Radiobiology Research Institute, the Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc., and CCF, to evaluate the Company’s radioprotective drug candidates and their effects on intracellular and extracellular signaling pathways. Under the terms of the agreement, all parties are financially responsible for their own expenses related to the agreement. The agreement may be unilaterally terminated by any party upon 30 days prior written notice.

In August 2007, the Company entered into an additional one-year CRADA with the Uniformed Service University of the Health Sciences to evaluate the Company’s radioprotective drug candidate Protectan CBLB502 in non-human primates. Under the terms of the agreement, the Company paid \$628,465 to Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc to purchase, house and irradiate animals and perform blood and cytokine analysis. The agreement may be unilaterally terminated by any party upon 30 days prior written notice.

Sunrise Securities Corp.

The Company engaged Sunrise Securities Corporation, or SSC, to act as the investment banker for the private placement that took place in March 2005, as a lead underwriter for the initial public offering in 2006, and as placement agent for its private placement of Series B Convertible Preferred Stock, or Series B Preferred. SSC and its related parties are owners of both common stock and warrants of the Company as a result of the private placement and the initial public offering. The Company paid SSC \$75,000 as an initial retainer for underwriting work associated with the initial public offering and SSC received \$945,000 in underwriting commissions from the initial public offering. In addition, the Company paid SSC \$95,000 related to legal fees incurred in the March 2007 Series B Preferred offering.

Consultants

In addition, a Company stockholder, who serves as the Company’s Chief Scientific Officer, received payments for consulting services performed on certain grant awards and internal research and development. Total cash consultant expense made to this person amounted to \$114,215, \$120,580, and \$104,168 for the years ended December 31, 2008, 2007 and 2006, respectively. The Company recaptured \$378,810 in non-cash, stock-based compensation expense in 2008 previously expensed as discussed in Note 20 to this consultant. In 2007, the Company incurred \$198,375 in non-cash, stock-based compensation expense to this consultant, accrued an additional \$732,915 in non-cash, stock-based compensation and an additional \$19,215 in subcontractor expense related to the 2007 Executive Compensation Plan.

A Company stockholder, who serves as the Company’s Vice President of Research - Radioprotectant Group, received payment for consulting services performed related to the Company’s research efforts. Total consultant expense made to this person amounted to \$78,380, \$95,520, and \$84,330 for the years ended December 31, 2008, 2007, and 2006, respectively.

Note 4. Equity Transactions

On February 1, 2006, the Company paid a common stock dividend of 91,776 shares to holders of the Series A preferred stock to satisfy the dividend requirement of the preferred stock issuance.

On March 1, 2006, the Company issued 116,750 stock options to various employees and consultants of the Company under non-qualified stock option agreements. These options allow for the purchase of 116,750 shares of common stock at a price of \$4.50. These options have a three-year vesting schedule and expire on February 29, 2016.

On June 21, 2006, after the expiration of the 115-day extension and an additional 30-day period, the Company incurred one additional penalty period in which 60,000 shares of Series A preferred stock were earned at \$120,000 and 15,295 shares of common stock were earned at \$30,590. The Company has not incurred any further obligation to issue penalty shares since these issuances.

On July 20, 2006, the Company sold 1,700,000 shares of common stock in its initial public offering at \$6.00 per share. The net proceeds to the Company from this offering were approximately \$8,300,000. Beginning July 21, 2006, the Company's shares were quoted on the NASDAQ Capital Market and listed on the Boston Stock Exchange under the symbols "CBLI" and "CFB" respectively. On August 28, 2007, trading of the Company's common stock moved from the NASDAQ Capital Market to the NASDAQ Global Market. In September 2007, we ceased our listing on the Boston Stock Exchange. In connection with its initial public offering, the Company sold warrants to purchase 170,000 shares of common stock to the underwriters and their designees at a cost of \$100.00. The warrants have an exercise price of \$8.70 per share.

On July 20, 2006, the effective date of the Company's initial public offering, the Company issued 92,407 shares of common stock as accumulated dividends to the Series A preferred stockholders. On the same date, all of the Company's Series A Preferred shares automatically converted on a one-for-one basis into 3,351,219 shares of common stock and notes of the Company in the principal amount of \$283,500 plus accrued interest of \$29,503 automatically converted into 124,206 shares of common stock. In connection with their appointment to the Board, the Company issued to each of the Company's three new independent directors, options to purchase 15,000 shares of common stock with an exercise price of \$6.00 per share.

On September 21, 2006, the SEC declared effective a registration statement of the Company registering up to 4,453,601 shares of common stock for resale from time to time by the selling stockholders named in the prospectus contained in the registration statement. The Company will not receive any proceeds from the sale of the underlying shares of common stock, although to the extent the selling stockholders exercise warrants for the underlying shares of common stock, the Company will receive the exercise price of those warrants. The registration statement was filed to satisfy registration rights that the Company had previously granted.

On November 16, 2006 the Company issued 50,000 warrants to an outside consultant. These warrants are immediately exercisable into common shares of the Company and have an exercise price of \$6.00 per share and an expiration date of November 16, 2011.

On February 14, 2007, the Company issued 99,500 stock options to various employees and consultants of the Company under non-qualified stock option agreements. These options allow for the purchase of 99,500 shares of common stock at a price of \$9.14. These options have various vesting schedules from immediate vesting to three years and expire on February 14, 2017.

On February 26, 2007, the Company issued 55,000 warrants at an exercise price of \$9.19 per share, to a placement agent as incentive for work on the private placement offering.

On March 16, 2007, the Company entered into a Securities Purchase Agreement with various accredited investors (the Buyers), pursuant to which the Company agreed to sell to the Buyers Series B Convertible Preferred Stock (Series B Preferred) convertible into an aggregate of 4,288,712 shares of common stock and Series B Warrants that are exercisable for an aggregate of 2,144,356 shares of common stock. The Series B Preferred have an initial conversion price of \$7.00 per share, pay an annual dividend of \$.35 per share, and in the event of a conversion at such conversion price, one share of Series B Preferred would convert into one share of common stock. The Series B Warrants have an exercise price of \$10.36 per share, the closing bid price on the day prior to the private placement. To the extent, however, that the conversion price of the Series B Preferred or the exercise price of the Series B Warrants is reduced as a result of certain anti-dilution protections, the number of shares of common stock into which the Series B Preferred are convertible and for which the Series B Warrants are exercisable may increase.

The Company also issued to the placement agents in the private placement (the Agents), as compensation for their services, Series B Preferred, Series B Warrants, and Series C Warrants. The Agents collectively received Series B Preferred that are convertible into an aggregate of 290,298 shares of common stock, Series B Warrants that are exercisable for an aggregate of 221,172 shares of the Company's common stock, and Series C Warrants that are exercisable for 267,074 shares of the Company's common stock. The Series C Warrants have an exercise price of \$11.00 per share, and are also subject to anti-dilution protections that could increase the number of shares of common stock for which they are exercisable.

In total, the securities issued in the private placement will be convertible into, or exercisable for, up to approximately 7,211,612 shares of common stock, which amount is subject to adjustment in the event of certain corporate events such as stock splits or issuances of securities at a price below the conversion price of the Series B Preferred or exercise price of the warrants, as the case may be. On September 13, 2007, the Company paid \$807,913 to the Series B Preferred stockholders for the semiannual dividend.

On March 19, 2007, the Company issued 20,000 stock options to members of the Scientific Advisory Board of the Company under non-qualified stock option agreements. These options are immediately exercisable and allow for the purchase of 20,000 shares of common stock at a price of \$8.82. These options expire on March 18, 2017.

On April 6, 2007, the Company issued 152,500 stock options to officers and consultants under non-qualified stock option agreements. These options are immediately exercisable and allow for the purchase of 152,500 shares of common stock at a price of \$8.36. These options expire on April 5, 2017. The Company also issued 115,000 shares of common stock to consultants under the Plan.

On June 12, 2007, the Company issued 140,000 stock options to four independent members of the Board of Directors of the Company under non-qualified stock option agreements. These options are immediately exercisable and allow for the purchase of 140,000 shares of common stock at a price of \$9.40. These options expire on June 11, 2017.

On June 15, 2007, the Company issued 110,000 stock options to various key employees and consultants under non-qualified stock option agreements. These options have various vesting schedules including immediate vesting, up to three year vesting, and vesting upon the company stock price obtaining certain levels. These options allow for the purchase of 110,000 shares of common stock at a price ranging from \$9.93 to \$17.00. These options expire on June 14, 2017. The Company also issued 30,000 shares of common stock to the same consultants under the Plan.

On June 21, 2007, the Company issued 3,000 stock options to a consultant under a non-qualified stock option agreement. These options vest over a six month period and allow for the purchase of 3,000 shares of common stock at a price of \$10.84. These options expire on June 20, 2017.

On June 27, 2007, the Company issued 30,000 shares of common stock to various outside consultants under the Plan.

On July 18, 2007, the Company issued 15,000 shares of common stock to an outside consultant under the Plan. On that date, the Company also issued 18,000 stock options to another consultant under a non-qualified stock option agreement. These options are immediately exercisable and allow for the purchase of 18,000 shares of common stock at a price of \$10.61. These options expire on December 31, 2012.

On December 4, 2007, the Company issued 117,000 stock options to various key employees and consultants under non-qualified stock option agreements. These options have up to three year vesting. These options allow for the purchase of 117,000 shares of common stock at an exercise price of \$10.00 per share. These options expire on or before December 3, 2017.

On December 11, 2007, the SEC declared effective a registration statement of the Company registering up to 5,514,999 shares of common stock for resale from time to time by the selling stockholders named in the prospectus contained in the registration statement. This number represents 5,514,999 shares of common stock issuable upon the conversion or exercise of the securities issued in the Company's March 2007 private placement at the current conversion and exercise prices. Of these 5,514,999 shares of common stock, 3,717,515 shares are issuable upon conversion of Series B Preferred and 1,797,484 shares are issuable upon exercise of the Series B Warrants. The Company will not receive any proceeds from the sale of the underlying shares of common stock, although to the extent the selling stockholders exercise warrants for the underlying shares of common stock, the Company will receive the exercise price of those warrants. The registration statement was filed to satisfy registration rights that the Company had previously granted. Subsequent to the effectiveness of the registration statement, 708,743 Series B Preferred were converted and \$61,418 in dividends earned were paid as of December 31, 2007. At December 31, 2007, \$396,469 in dividends were accrued on the outstanding Series B Preferred.

On January 1, 2008, the Company issued 100,000 options to a new employee and 60,000 options to a key consultant of the Company under the Plan. The options vest over a period from one to three years and allow for the purchase of 160,000 shares of common stock at a price of \$8.00 per share. These options expire on December 31, 2017.

On January 4, 2008, the Company issued 20,000 restricted shares of common stock to a new employee. These shares vest over a three-year period with 25% vested on issuance and 25% vesting on the anniversary date of the agreement for each of the next three years.

On February 4, 2008, the Company issued options to purchase 503,250 shares of common stock under non-qualified stock option agreements to the executive management team under the 2007 Executive Compensation Plan. These options were originally expensed in 2007 at the December 31, 2007 closing price of \$8.80. These options vest immediately, contain an exercise price of \$4.00 per share, and expire on February 4, 2018. The Company also issued options to purchase 34,398 shares of common stock to various employees under non-qualified stock option agreements under an employee bonus program. These options vest immediately, contain an exercise price of \$4.00 per share, and expire on February 3, 2018. Finally, the Company issued stock options to various key employees under non-qualified stock option agreements. These options have up to three years vesting. These options allow for the purchase of 21,300 shares of common stock at an exercise price of \$4.00 per share and expire on February 3, 2018.

On March 12, 2008, the Company issued 1,000 stock options to a consultant under a non-qualified stock option agreement. These options vest immediately and allow for the purchase of 1,000 shares of common stock at an exercise price of \$4.81 per share. These options expire on March 11, 2018.

On March 14, 2008, the Company issued 100,000 unrestricted shares of common stock to a key consultant under the Plan.

On April 8, 2008, the Company issued 40,000 stock options to three consultants under non-qualified stock option agreements. These options vest immediately and allow for the purchase of 40,000 shares of common stock at an exercise price of \$4.18 per share. These options expire on April 7, 2018. On April 8, 2008, the Company also issued 25,000 restricted shares of common stock. These shares vest over a three-month period with 40% vested on issuance and 60% vesting three months from the date of the agreement.

On April 29, 2008, the Company issued 140,000 stock options to four independent members of the Board of Directors of the Company under non-qualified stock option agreements. These options vest immediately and allow for the purchase of 140,000 shares of common stock at an exercise price of \$5.33 per share. These options expire on April 28, 2018.

On May 7, 2008, the Company issued 14,976 stock options to various employees under non-qualified stock option agreements under an employee bonus program. These options vest immediately and allow for the purchase of 14,976 shares of common stock at an exercise price of \$5.28 per share. These options expire on May 6, 2018.

On July 15, 2008, the Company issued 28,456 stock options to various employees under non-qualified stock option agreements under an employee bonus program. These options vest immediately and allow for the purchase of 28,456 shares of common stock at an exercise price of \$3.98 per share. These options expire on July 14, 2018.

On September 22, 2008, the Company issued 35,000 stock options to a new employee under non-qualified stock option agreements. These options vest over a three-year period and allow for the purchase of 35,000 shares of common stock at an exercise price of \$4.69 per share. These options expire on September 21, 2018.

On November 14, 2008, the Company issued 19,341 stock options to various employees under non-qualified stock option agreements under an employee bonus program. These options vest immediately and allow for the purchase of

19,341 shares of common stock at an exercise price of \$3.10 per share. These options expire on November 13, 2018.

For the year ending December 31, 2008, Series B Preferred Shares were converted into 709,293 shares of common stock. At December 31, 2008, there were 3,160,974 outstanding Series B Preferred for which \$321,293 in dividends had been accrued.

Note 5. Income Taxes

The provisions for income taxes charged to continuing operations is \$0 for the years ended December 31, 2008, 2007, and 2006, respectively.

Deferred tax assets (liabilities) are comprised of the following at December 31:

	2008	2007	2006
Deferred tax assets:			
Operating loss carryforwards	\$ 18,383,000	\$ 13,289,000	\$ 4,586,000
Tax credit carryforwards	1,772,000	737,000	-
Deferred compensation	3,102,000	2,765,000	345,000
Other	4,000	-	2,000
Total deferred income tax assets	23,261,000	16,791,000	4,933,000
Deferred tax liabilities			
Equipment	(83,000)	(61,000)	(35,000)
Net deferred income tax asset	23,178,000	16,730,000	4,898,000
Valuation allowance	(23,178,000)	(16,730,000)	(4,898,000)
	\$ -	\$ -	\$ -

The provision for income taxes differs from the amount of income tax determined by applying the applicable U.S. statutory federal income tax rate to the pretax loss from continuing operations as a result of the following differences:

	2008	2007	2006
Tax at the U.S. statutory rate	\$ (4,769,000)	\$ (9,474,000)	\$ (2,456,000)
Stock option exercises	(20,000)	(363,000)	-
Valuation allowance	4,879,000	9,831,000	2,456,000
Other	(90,000)	6,000	-
	\$ -	\$ -	\$ -

At December 31, 2008, the Company has federal net operating loss carryforwards of approximately \$46,658,000, which begin to expire if not utilized by 2023, and approximately \$1,509,000 of tax credit carryforwards that begin to expire if not utilized by 2024. The utilization of approximately \$329,000 of the net operating loss carryforwards and approximately \$203,000 of the tax credit carryforwards is limited through 2011 as a result of ownership changes. The Company also has state net operating loss carryforwards of approximately \$35,486,000, which begin to expire if not utilized by 2027, and state tax credit carryforwards of approximately \$517,000, which begin to expire if not utilized by 2010. The utilization of these federal and state net operating loss and tax credit carryforwards is limited as a result of ownership changes.

The Company files a United States federal tax return, along with various state and local income tax returns. The federal, state and local tax returns for the years ended December 31, 2007, 2006 and 2005 are still open for

examination.

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Effective January 1, 2007, the Company adopted Financial Accounting Standards Board FIN 48, "Accounting for Uncertainty in Income Taxes", which prescribes a minimum recognition threshold and measurement methodology that a tax position taken or expected to be taken in a tax return is required to meet before being recognized in the financial statements. There was no impact to the financial statements upon the adoption of FIN 48.

The following presents a rollforward of the unrecognized tax benefits under FIN 48, and the associated interest and penalties:

	Unrecognized Tax Benefits	Interest and Penalties
Balance at January 1, 2007 (adoption)	\$ -	\$ -
Prior year tax positions	-	-
Current year tax positions	-	-
Deferred tax positions	230,000	-
Settlements with tax authorities	-	-
Expiration of the statute of limitations	-	-
Balance at December 31, 2007	230,000	-
Prior year tax positions	-	-
Current year tax positions	-	-
Deferred tax positions	24,000	-
Settlements with tax authorities	-	-
Expiration of the statute of limitations	-	-
Balance at December 31, 2008	\$ 254,000	\$ -

The Company's 2007 and 2008 New York state tax returns include approximately \$724,000 of refundable state incentive tax credits, which are based upon research and development activities, real estate tax payments, hiring employees and equipment purchases. At December 31, 2008, none of these refunds have been received from the NY tax authorities, and accordingly, no benefit has been recorded in the accompanying financial statements.

Note 6. Other Balance Sheet Details

Available-For-Sale Cash Equivalents and Marketable Securities

Available-for-sale Marketable Securities consist of the following:

	Cost	Accrued Interest	Gross Unrealized Gains	Gross Unrealized Losses	Fair Value
December 31, 2008 - Current Marketable Securities	\$ 1,000,000	\$ 9,488	\$ -	\$ -	\$ 1,009,488

The Company considers investments with a maturity date of more than three months from the date of purchase to be short-term investments and has classified these securities as available-for-sale. Such investments are carried at fair value, with unrealized gains and losses included as accumulated other comprehensive income (loss) in stockholders' equity. The cost of available-for-sale securities sold is determined based on the specific identification method. As a result of changes in market interest rates on investment, the Company recognized unrealized gains/(losses) of \$0 \$4,165, and \$13,645 for the years ending December 31, 2008, 2007, and 2006, respectively.

Equipment

Equipment consists of the following:

	2008	2007
Laboratory Equipment	\$ 309,323	\$ 966,517
Computer Equipment	1,102,465	258,089
Furniture	312,134	274,903
	1,723,922	1,499,509
Less accumulated depreciation	(637,840)	(313,489)
	\$ 1,086,082	\$ 1,186,020

Note 7. Commitments and Contingencies

The Company has entered into various agreements with third parties and certain related parties in connection with the research and development activities of its existing product candidates as well as discovery efforts on potential new product candidates. These agreements include costs for research and development and license agreements that represent the Company's fixed obligations payable to sponsor research and minimum royalty payments for licensed patents. These amounts do not include any additional amounts that the Company may be required to pay under its license agreements upon the achievement of scientific, regulatory and commercial milestones that may become payable depending on the progress of scientific development and regulatory approvals, including milestones such as the submission of an investigational new drug application to the FDA and the first commercial sale of the Company's products in various countries. These agreements include costs related to manufacturing, clinical trials and preclinical studies performed by third parties.

The Company is also party to three agreements that require it to make milestone payments, royalties on net sales of the Company's products and payments on sublicense income received by the Company. As of December 31, 2008, \$350,000 in milestone payments have been made under one of these agreements.

From time to time, the Company may have certain contingent liabilities that arise in the ordinary course of business. The Company accrues for liabilities when it is probable that future expenditures will be made and such expenditures can be reasonably estimated. For all periods presented, the Company is not a party to any pending material litigation or other material legal proceedings. From time to time in the ordinary course of business, the Company may be subject to claims brought against it. It is not possible to state the ultimate liability, if any, in these matters.

The Company currently has operating lease commitments in place for facilities in Buffalo, New York and Chicago, Illinois as well as office equipment. The Company recognizes rent expense on a straight-line basis over the term of the related operating leases. The operating lease expense recognized were \$332,584, \$218,635 and \$160,742 for the years ended December 31, 2008, 2007 and 2006, respectively.

Annual future minimum lease payments under present lease commitments are as follows.

	Operating Leases
2009	\$ 355,900
2010	343,656
2011	311,803
2012	144,375
2013	-
	\$ 1,155,734

The Company has entered into stock option agreements with key employees, board members and consultants with exercise prices ranging from \$0.66 to \$17.00. These awards were approved by the Company's Board of Directors. The options expire ten years from the date of grant except 18,000 options that expire on December 31, 2012, subject to the terms applicable in the agreement.

The following tables summarize the stock option activity for the year ended December 31, 2008 and 2007:

	Number of Options	Weighted Average Exercise Price
Outstanding at December 31, 2006	483,490	\$ 2.17
Granted	660,000	\$ 9.85
Exercised	131,750	\$ 1.34
Forfeited	0	n/a
Outstanding at December 31, 2007	1,011,740	\$ 7.29
Granted	997,721	\$ 3.16
Exercised	42,534	\$ 1.04
Forfeited	18,053	\$ 9.00
Outstanding at December 31, 2008	1,948,874	\$ 6.17

The number of options and weighted average exercise price of options fully vested and exercisable for the years ending December 31, 2008, 2007 and 2006 were 1,597,837, 646,930, and 243,183 options at \$5.52, \$6.89, and \$2.27 respectively. A table showing the number of options outstanding and exercisable (fully vested) at December 31, 2008 appears below:

The Company has entered into warrant agreements with strategic partners, consultants and investors with exercise prices ranging from \$1.13 to \$11.00. These awards were approved by the Company's Board of Directors. The warrants expire between five and six years from the date of grant, subject to the terms applicable in the agreement. A list of the total warrants awarded and exercised appears below:

	Number of Warrants	Weighted Average Exercise Price
Outstanding at December 31, 2006	814,424	\$ 3.36

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Granted	2,687,602	\$	10.40
Exercised	48,758	\$	2.00
Outstanding at December 31, 2007	3,453,268	\$	8.86
Granted	-		N/A
Exercised	-		N/A
Outstanding at December 31, 2007	3,453,268	\$	8.86

Exercise Price	Number of Options	Weighted Average Years to Expiration	Number of Options
\$ 0.66	112,500	6.50	112,500
\$ 0.67	45,981	6.50	45,981
\$ 3.10	19,341	9.87	19,341
\$ 3.98	28,456	9.54	28,456
\$ 4.00	557,902	9.09	541,927
\$ 4.18	40,000	9.27	40,000
\$ 4.50	111,500	7.17	81,688
\$ 4.69	35,000	9.73	8,750
\$ 4.81	1,000	9.20	1,000
\$ 5.28	14,694	9.35	14,694
\$ 5.33	140,000	9.33	140,000
\$ 6.00	45,000	7.56	45,000
\$ 8.00	160,000	9.01	55,000
\$ 8.36	152,500	8.27	152,500
\$ 8.82	20,000	8.22	20,000
\$ 9.14	77,000	8.12	39,000
\$ 9.40	140,000	8.45	140,000
\$ 9.93	30,000	8.46	20,000
\$ 10.00	117,000	8.93	71,000
\$ 10.61	18,000	4.00	18,000
\$ 10.84	3,000	8.48	3,000
\$ 11.00	25,000	8.46	-
\$ 14.00	25,000	8.46	-
\$ 17.00	30,000	8.46	-
Total	1,948,874	8.53	1,597,837

The Company has entered into employment agreements with three key executives who, if terminated by the Company without cause as described in these agreements, would be entitled to severance pay.

The Company was awarded a \$440,000 grant from the New York Empire State Certified Development Corporation and received \$220,000 in the year ended December 31, 2008. The award provides minimum employee levels required to receive the remainder of the award and contains provisions of recapture of monies paid if required employment levels are not maintained.

Note 8. Subsequent Events

On February 13, 2009, March 20, 2009, and March 27, 2009, the Company entered into Securities Purchase Agreements (the "Purchase Agreement") with various accredited investors (the "Purchasers"), pursuant to which the Company agreed to sell to the Purchasers an aggregate of 542.84 shares (the "Shares") of Series D Convertible Preferred Stock, with a par value of \$0.005 per share and a stated value of \$10,000 per share ("Series D Preferred"), and Common Stock Purchase Warrants (the "Warrants") to purchase an aggregate of 3,877,386 shares of the Company's Common Stock, par value \$0.005 per share ("Common Stock"). The Warrants have a seven-year term and an exercise price of \$1.60. Each share of Series D Preferred is convertible into approximately 7,143 shares of Common Stock, subject to the adjustment as described below.

The aggregate purchase price paid by the Purchasers for the Shares and the Warrants was approximately \$5,428,307 (representing \$10,000 for each Share together with a Warrant). After related fees and expenses, the Company received net proceeds of approximately \$4,460,000. The Company intends to use the proceeds for working capital purposes.

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In consideration for its services as exclusive placement agent, Garden State Securities, Inc. (“GSS”), received cash compensation and Warrants to purchase an aggregate of approximately 387,736 shares of Common Stock. In the aggregate, Series D Preferred and Warrants issued in the transaction (including those issued to GSS) are convertible into, and exercisable for, approximately 8,142,508 shares of Common Stock. Each share of Series D Preferred is convertible into a number of shares of Common Stock equal to (1) the stated value of the share (\$10,000), divided by (2) \$1.40, subject to adjustment as discussed below (the “Conversion Price”).

The Series D Preferred ranks junior to the Company’s Series B Convertible Preferred Stock (“Series B Preferred”) and senior to all shares of Common Stock and other capital stock of the Company.

If the Company does not meet certain milestones, the Conversion Price will, unless the closing price of the Common Stock is greater than \$3.69 on the date the Milestone is missed, be reduced to 80% of the Conversion Price in effect on that date (the “Milestone Adjustment”). In addition to the Milestone Adjustment, (a) on August 13, 2009 (the “Initial Adjustment Date”), the Conversion Price shall be reduced to 95% of the then Conversion Price, and (b) on each three month anniversary of the Initial Adjustment Date (each, an “Adjustment Date”), the then Conversion Price shall be reduced by \$0.05 (subject to adjustment) until maturity. The Conversion Price is also subject to proportional adjustment in the event of any stock split, stock dividend, reclassification or similar event with respect to the Common Stock and to anti-dilution adjustment in the event of any Dilutive Issuance (as defined in the Certificate of Designation).

If the closing price for each of any 20 consecutive trading days after the effective date of the initial registration statement filed pursuant to the Registration Rights Agreement (as defined below) (the “Effective Date”) exceeds 300% of the then effective Conversion Price and various other equity conditions are satisfied, the Series D Preferred will automatically convert into shares of Common Stock.

At any time after February 13, 2012, the Company may, if various equity conditions are satisfied, elect either to redeem any outstanding Series D Preferred in cash or to convert any outstanding Series D Preferred into shares of Common Stock at the conversion rate then in effect.

If the Company receives any cash funds after February 13, 2009 from fees, royalties or revenues as a result of the license of any of its intellectual property (such net proceeds the “IP Proceeds”), cash funds from development grants from any government agency for the development of anti-cancer applications of any of the Company’s curaxin compounds or anti-cancer or biodefense applications for the Company’s CBLB502 compound (the “Governmental Grant Proceeds”) or allocates cash proceeds to its Escrow Account (as defined in the Purchase Agreement) (the “Company Allocation”), then the Company must deposit 40% of the IP Proceeds, 20% of the Governmental Grant Proceeds and the Company Allocation into an escrow account (the “Sinking Fund”). At any time after the later of the Effective Date and the six-month anniversary of the initial contribution by the Company to the Sinking Fund, but no more than once in every 6-month period, the Company will be required to use the funds then in the Sinking Fund to redeem outstanding shares of Series D Preferred, from the holders on a pro rata basis, at a premium of 15% to the stated value through February 13, 2010, and 20% thereafter.

Immediately after the completion of the transactions contemplated by the Purchase Agreement, the conversion price of the Company’s Series B Preferred was adjusted, pursuant to weighted-average anti-dilution provisions, to \$4.67, causing the conversion rate of Series B Preferred into Common Stock to change to approximately 1-to-1.49893. In addition, the exercise prices of the Company’s Series B Warrants and Series C Warrants were adjusted, pursuant to weighted-average anti-dilution provisions, to \$6.79 and \$7.20, respectively, from the original exercise prices of \$10.36 and \$11.00. In addition to the adjustment to the exercise prices of the Series B Warrants and the Series C Warrants, the aggregate number of shares issuable upon exercise of the Series B Warrants and the Series C Warrants increased to 3,609,261 and 408,032, respectively, from 2,365,528 and 267,074. Certain other warrants issued prior to the Company’s initial public offering were also adjusted pursuant to anti-dilution provisions contained in those

warrants such that their per share exercise price reduced from \$2.00 to \$1.48 and the aggregate number of shares of Common Stock issuable increased from approximately 281,042 to approximately 379,787.

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Item 9: Changes in and Disagreements with Accountants on Accounting and Financial Disclosure

None

Item 9A: Controls and Procedures

Effectiveness of Disclosure

Our management, with the participation of our Chief Executive Officer and Chief Financial Officer, evaluated the effectiveness of our disclosure controls and procedures as of December 31, 2008 as defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934, as amended, or the Exchange Act. Our management recognizes that any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving their objectives and management necessarily applies its judgment in evaluating the cost-benefit relationship of possible controls and procedures. Based on the evaluation of our disclosure controls and procedures as of December 31, 2008, our Chief Executive Officer and Chief Financial Officer concluded that, as of such date, our disclosure controls and procedures were effective to assure that information required to be declared by us in reports that we file or submit under the Exchange Act is (1) recorded, processed, summarized, and reported within the periods specified in the SEC's rules and forms and (2) accumulated and communicated to our management, including our Chief Executive Officer and Chief Financial Officer, as appropriate, to allow timely decisions regarding required disclosure.

Changes in Internal Control over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting, as such term is defined in Exchange Act Rules 13a-15(f). Under the supervision and with the participation of management, including our principal executive officer and principal financial officer, we conducted an evaluation of the effectiveness of our internal control over financial reporting based on the framework in Internal Control – Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on our evaluation under the framework in Internal Control – Integrated Framework, our management concluded that our internal control over financial reporting was effective as of December 31, 2008.

This annual report does not include an attestation report of the Company's registered public accounting firm regarding internal control over financial reporting. Management's report was not subject to attestation by the Company's registered public accounting firm pursuant to temporary rules of the Securities and Exchange Commission that permit the Company to provide only management's report in this annual report on Form 10-K.

There was no change in our internal control over financial reporting during our fourth fiscal quarter ended December 31, 2008 that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

Item 9B: Other Information

Not applicable.

PART III

Pursuant to General Instruction G(3) of Form 10-K, Items 10 through 14, inclusive, have not been restated or answered in this annual report on Form 10-K because the Company intends to file within 120 days after the close of its fiscal year with the Securities and Exchange Commission a definitive proxy statement pursuant to Regulation 14A under the Securities Exchange Act of 1934, which proxy statement involves the election of directors. The information required in these Items 10 through 14, inclusive, is incorporated by reference to that proxy statement.

PART IV

Item 15. Exhibits and Financial Statement Schedules

(a) The following financial statements and supplementary data are filed as a part of this annual report on Form 10-K.

Report of Independent Registered Public Accounting Firm

Balance Sheets at December 31, 2008 and 2007

Statements of Operations for years ended December 31, 2008, 2007, and 2006

Statements of Stockholders' Equity for period from January 1, 2006 to December 31, 2008

Statements of Cash Flows for years ended December 31, 2008, 2007, and 2006

Notes to Financial Statements

(b) The following exhibits are incorporated herein by reference or attached hereto.

Exhibit No.	Description
3.1	Certificate of Incorporation filed with the Secretary of State of Delaware on June 5, 2003***
3.2	Certificate of Amendment of Certificate of Incorporation filed with the Secretary of State of Delaware on February 25, 2005***
3.3	Certificate of Designation of Series A Participating Convertible Preferred Stock filed with the Secretary of State of Delaware on March 8, 2005***
3.4	Second Certificate of Amendment of Certificate of Incorporation filed with Secretary of State of Delaware on June 30, 2006***
3.5	Certificate of Designations, Preferences and Rights of Series B Convertible Preferred Stock, dated March 16, 2007*****
3.6	Certificate of Designation of Preferences, Rights and Limitations of Series D Convertible Preferred Stock, dated February 13, 2009.†
3.7	Second Amended and Restated By-Laws*****
4.1	Form of Specimen Common Stock Certificate*
4.2	Form of Warrants issues to designees of Sunrise Securities Corp., dated March 2005*

4.3	Form of Warrants issued to underwriters***
4.4	Warrant to Purchase Common Stock issued to ChemBridge Corporation, dated April 27, 2004*
4.5	Form of Series B Warrant *****
4.6	Form of Series C Warrant *****
4.7	Form of Common Stock Purchase Warrant.†
10.1	Restricted Stock Agreement between Cleveland BioLabs, Inc. and Michael Fonstein, dated as of July 5, 2003*
10.2	Restricted Stock Agreement between Cleveland BioLabs, Inc. and Yakov Kogan, dated as of July 5, 2003*
10.3	Restricted Stock Agreement between Cleveland BioLabs, Inc. and Andrei Gudkov, dated as of July 5, 2003*
10.4	Library Access Agreement by and between ChemBridge Corporation and Cleveland BioLabs, Inc., effective as of April 27, 2004*
10.5	Restricted Stock and Investor Rights Agreement between Cleveland BioLabs, Inc. and ChemBridge Corporation, dated as of April 27, 2004*
10.6	Common Stockholders Agreement by and among Cleveland BioLabs, Inc. and the stockholders named therein, dated as of July 1, 2004*
10.7	Exclusive License Agreement by and between The Cleveland Clinic Foundation and Cleveland BioLabs, Inc., effective as of July 1, 2004*
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10.11	Cooperative Research and Development Agreement by and between the Uniformed Services University of the Health Sciences, the Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc., the Cleveland Clinic Foundation, and Cleveland BioLabs, Inc., dated as of August 1, 2004**

10.12	Employment Agreement by and between Cleveland BioLabs, Inc. and Dr. Farrel Fort, dated June 1, 2005*
10.13	Amendment to Employment Agreement by and between Cleveland BioLabs, Inc. and Dr. Farrel Fort, dated September 30, 2005*
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10.18	Amendment to Common Stockholders Agreement by and among Cleveland BioLabs, Inc. and the parties thereto, dated as of January 26, 2006*
10.19	Cleveland BioLabs, Inc. 2006 Equity Incentive Plan***
10.20	Process Development and Manufacturing Agreement between Cleveland BioLabs, Inc. and SynCo Bio Partners B.V., effective as of August 31, 2006****
10.21	Sponsored Research Agreement between Cleveland BioLabs, Inc. and Roswell Park Cancer Institute Corporation, effective as of January 12, 2007*****
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10.25	Amendment to Employment Agreement by and between Cleveland BioLabs, Inc. and Dr. Yakov Kogan, dated as of December 31, 2008.
10.26	Form of Securities Purchase Agreement. †
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10.28	Form of Voting Agreement.†
10.29	Amendment and Waiver Agreement, dated March 20, 2009.†
10.30	Form of Amendment and Reaffirmation Agreement.†
23.1	Consent of Meaden & Moore, Ltd.
31.1	Rule 13a-14(a)/15d-14(a) Certification of Michael Fonstein
31.2	Rule 13a-14(a)/15d-14(a) Certification of John A. Marhofer, Jr.
32.1	Section 1350 Certification.

* Incorporated by reference to Amendment No. 1 to Registration Statement on Form SB-2 as filed on April 25, 2006 (File No. 333-131918).

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(c) Not applicable.

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the Registrant has caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

CLEVELAND BIOLABS, INC.

Dated: March 30, 2009

By: /s/ MICHAEL FONSTEIN
Michael Fonstein
Chief Executive Officer
(Principal Executive Officer)

CLEVELAND BIOLABS, INC.

Dated: March 30, 2009

By: /s/ JOHN A. MARHOFER, JR.
John A. Marhofer, Jr.
Chief Financial Officer
(Principal Financial and Accounting Officer)

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

Signature	Title	Date
/ S / Michael Fonstein Michael Fonstein	Chief Executive Officer, President, and Director (Principal Executive Officer)	March 30, 2009
/ S / John A. Marhofer, Jr. John A. Marhofer, Jr.	Chief Financial Officer (Principal Financial and Accounting Officer)	March 30, 2009
/ S / James Antal James Antal	Director	March 30, 2009
/ S / Paul DiCorleto Paul DiCorleto	Director	March 30, 2009
/ S / Andrei Gudkov Andrei Gudkov	Chief Scientific Officer, and Director	March 30, 2009
/ S / Bernard L. Kasten Bernard L. Kasten	Director	March 30, 2009
/ S / Yakov Kogan Yakov Kogan	Chief Operating Officer, Secretary, and Director	March 30, 2009

/ S / H. Daniel Perez
H. Daniel Perez

Director

March 30, 2009

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