

SOLIGENIX, INC.

Form POS AM

April 28, 2010

As filed with the Securities and Exchange Commission on April 28, 2010.

Registration No. 333-157322

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SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 20549

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POST-EFFECTIVE AMENDMENT NO. 1  
TO  
FORM S-1  
REGISTRATION STATEMENT  
UNDER  
THE SECURITIES ACT OF 1933

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SOLIGENIX, INC.

(Exact name of registrant as specified in its  
charter)

Delaware  
(State or other jurisdiction of  
incorporation or organization)

2834  
(Primary Standard Industrial  
Classification Code Number)

41-1505029  
(I.R.S. Employer  
Identification No.)

Soligenix, Inc.  
29 Emmons Drive, Suite C-10  
Princeton, New Jersey 08540  
(609) 538-8200

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

Christopher J. Schaber, Ph.D.  
President and Chief Executive Officer  
Soligenix, Inc.  
29 Emmons Drive, Suite C-10  
Princeton, New Jersey 08540  
(609) 538-8200

(Name, address, including zip code, and telephone number,  
including area code, of agent for service)

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with copies to:  
Leslie J. Croland, Esq.  
Edwards Angell Palmer & Dodge LLP  
One North Clematis Street, Suite 400  
West Palm Beach, Florida 33401-5552  
(561) 833-7700

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Approximate date of commencement of proposed sale to the public: From time to time, at the discretion of the selling stockholders, after the effective date of this registration statement.

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

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

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

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

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

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

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

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

SUBJECT TO COMPLETION, DATED APRIL 28, 2010

PROSPECTUS

Soligenix, Inc.

44,491,610 Shares of Common Stock

This prospectus relates to the sale from time to time of up to 44,491,610 shares of our common stock by the selling stockholders named in this prospectus in the section "Selling Stockholders," including their pledgees, assignees and successors-in-interest, whom we collectively refer to in this document as the "Selling Stockholders." We completed a private placement in which we issued to certain of the Selling Stockholders an aggregate of 20,914,035 shares of our common stock, together with warrants to purchase up to 914,035 shares of our common stock. We also issued 16,666,667 shares of our common stock to one of the Selling Stockholders in connection with the execution of a letter of intent. In addition, we issued 2,713,539 shares of our common stock to certain of the Selling Stockholders as compensation for services rendered to us, warrants to purchase up to 1,000,000 shares of our common stock for a finder's fee and warrants to purchase up to 1,450,000 shares of our common stock for services rendered. We may issue 833,334 shares of our common stock to one of the Selling Stockholders as payment for services to be rendered to us. The common stock offered by this prospectus shall be adjusted to cover any additional securities as may become issuable to prevent dilution resulting from stock splits, stock dividends or similar transactions. The prices at which the Selling Stockholders may sell the shares will be determined by the prevailing market price for the shares or in negotiated transactions. We will not receive any of the proceeds from the sale of any of the shares covered by this prospectus unless warrants are exercised. References in this prospectus to the "Company," "we," "our," and "us" refer to Soligenix, Inc.

Our common stock is quoted on the Over-the-Counter Bulletin Board ("OTCBB") under the symbol "SNGX." On April 27, 2010, the last quoted sale price for our common stock as reported on the OTCBB was \$0.29 per share.

Investing in our common stock involves certain risks. See "Risk Factors" beginning on page 4 for a discussion of these risks.

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

Soligenix, Inc.  
29 Emmons Drive, Suite C-10  
Princeton, New Jersey 08540  
(609) 538-8200

The date of this prospectus is \_\_\_\_\_, 2010



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You should rely only on the information contained or incorporated by reference in this prospectus and in any accompanying prospectus supplement. We have not authorized anyone to provide you with different information.

We have not authorized the Selling Stockholders to make an offer of these shares of common stock in any jurisdiction where the offer is not permitted.

You should not assume that the information in this prospectus or prospectus supplement is accurate as of any date other than the date on the front of this prospectus.

## FORWARD-LOOKING STATEMENTS

The information contained in this prospectus, including the information incorporated by reference into this prospectus, includes forward-looking statements. These forward-looking statements are often identified by words such as “may,” “will,” “expect,” “intend,” “anticipate,” “believe,” “estimate,” “continue,” “plan” and similar expressions. These statements include estimates, assumptions and uncertainties that could cause actual results to differ materially from those expressed for the reasons described in this prospectus. You should not place undue reliance on these forward-looking statements.

You should be aware that our actual results could differ materially from those contained in the forward-looking statements due to a number of factors, including:

- our ability to successfully complete the confirmatory Phase 3 clinical trial of orBec® for the treatment of gastrointestinal Graft-versus-Host disease;
- the possibility that orBec® may not show therapeutic effect or an acceptable safety profile in future clinical trials, or could take a significantly longer time to gain regulatory approval than we expect or may never gain approval;
- our dependence on the expertise, effort, priorities and contractual obligations of third parties in the clinical trials, manufacturing, marketing, sales and distribution of our products;
- significant uncertainty inherent in developing vaccines against bioterror threats, and manufacturing and conducting preclinical and clinical trials of vaccines;
- our ability to obtain regulatory approvals;
- uncertainty as to whether our technologies will be safe and effective;
- our ability to make certain that our cash expenditures do not exceed projected levels;
- our ability to obtain future financing or funds when needed;
- that product development and commercialization efforts will be reduced or discontinued due to difficulties or delays in clinical trials or a lack of progress or positive results from research and development efforts;
- our ability to successfully obtain further grants and awards from the U.S. Government and other countries, and maintenance of our existing grants;
- our ability to enter into any biodefense procurement contracts with the U.S. Government or other countries;
- our ability to patent, register and protect our technology from challenge and our products from competition;
- maintenance or expansion of our license agreements with our current licensors;
- changes in healthcare regulation;
- changes in the needs of biodefense procurement agencies;
- maintenance of a successful business strategy;
- the possibility that orBec® may not gain market acceptance; and
- that others may develop technologies or products superior to our products.

You should also consider carefully the statements under “Risk Factors” and other sections of this prospectus, which address additional factors that could cause our actual results to differ from those set forth in the forward-looking statements and could materially and adversely affect our business, operating results and financial condition. All subsequent written and oral forward-looking statements attributable to us or persons acting on our behalf are expressly qualified in their entirety by the applicable cautionary statements.

The forward-looking statements speak only as of the date on which they are made, and, except to the extent required by federal securities laws, we undertake no obligation to update any forward-looking statement to reflect events or circumstances after the date on which the statement is made or to reflect the occurrence of unanticipated events. In addition, we cannot assess the impact of each factor on our business or the extent to which any factor, or combination of factors, may cause actual results to differ materially from those contained in any forward-looking statements.



## PROSPECTUS SUMMARY

## About Our Company

Soligenix, Inc., formerly known as DOR BioPharma, Inc., was incorporated in Delaware in 1987. We are a late-stage research and development biopharmaceutical company focused on developing products to treat the life-threatening side effects of cancer treatment and serious gastrointestinal diseases where there remains an unmet medical need, as well as developing biodefense vaccines and therapeutics. We maintain two active business segments: BioTherapeutics and BioDefense. Our BioTherapeutics business segment intends to develop orBec® (oral beclomethasone dipropionate, or oral BDP) and other biotherapeutic products, including LPMTM Leuprolide. Our BioDefense business segment intends to convert its ricin toxin vaccine and radiation injury program from early stage development to advanced development and manufacturing.

Our business activities can be outlined as follows:

- complete the pivotal Phase 3 confirmatory clinical trial for orBec® in the treatment of acute gastrointestinal Graft-versus-Host disease (“GI GVHD”);
- identify a development and marketing partner for orBec® for territories outside of North America, as we have granted an exclusive license to Sigma-Tau Pharmaceuticals, Inc. (“Sigma-Tau”) to commercialize orBec® in the U.S., Canada and Mexico;
  - conduct and complete a Phase 2 clinical trial of orBec® for the prevention of acute GVHD;
- evaluate and initiate additional clinical trials to explore the effectiveness of oral BDP in other therapeutic indications involving inflammatory conditions of the gastrointestinal tract such as radiation enteritis, radiation injury and Crohn’s disease;
  - reinitiate development of our other biotherapeutics products, including LPMTM Leuprolide;
- continue to secure additional government funding for each of our BioDefense programs through grants, contracts and procurements;
- convert our biodefense vaccine programs from early stage development to advanced development and manufacturing with the potential to collaborate and/or partner with other companies in the biodefense area;
  - acquire or in-license new clinical-stage compounds for development; and
  - explore other business development and acquisition strategies.

Our principal executive offices are located at 29 Emmons Drive, Suite C-10, Princeton, New Jersey 08540 and our telephone number is (609) 538-8200.

The following tables summarize the products that we are currently developing:

## BioTherapeutic Products

| Soligenix Product  | Therapeutic Indication            | Stage of Development                              |
|--------------------|-----------------------------------|---|
| orBec®             | Treatment of Acute GI GVHD        | Pivotal Phase 3 confirmatory trial enrolling      |
| orBec®             | Prevention of Acute GI GVHD       | Phase 2 trial enrolling                           |
| orBec®             | Treatment of Chronic GI GVHD      | Phase 2 trial potentially to be initiated in 2010 |
| SGX 201            | Acute Radiation Enteritis         | Phase 1/2 trial initiated                         |
| LPM™<br>Leuprolide | Endometriosis and Prostate Cancer | Phase 1 trial potentially to be initiated in 2010 |



BioDefense Products

| Target           | Available Countermeasure                      | Soligenix Product   |
|------------------|---|---|
| Ricin Toxin      | No vaccine or antidote currently FDA approved | Injectable ricin vaccine<br>Phase 1 clinical trial successfully completed<br>Second Phase 1 trial enrolling |
| Radiation Injury | No vaccine or antidote currently FDA approved | SGX 202 (pre-clinical)  |

## The Offering

This prospectus relates to the offer and sale, from time to time, of up to 44,491,610 shares of our common stock by the Selling Stockholders. We are also registering for sale any additional shares of common stock which may become issuable by reason of any stock dividend, stock split, recapitalization or other similar transaction effected without the receipt of consideration, which results in an increase in the number of outstanding shares of our common stock.

The Selling Stockholders may sell these shares in the over-the-counter market or otherwise, at market prices prevailing at the time of sale or at negotiated prices. We will not receive any proceeds from the sale of shares by the Selling Stockholders. See "Plan of Distribution."

As of April 27, 2010, there were 186,972,036 shares outstanding, including 40,294,241 of the 44,491,610 shares of our common stock offered by the Selling Stockholders pursuant to this prospectus. The number of shares offered by this prospectus represents approximately 23.81% of the total common stock outstanding as of April 27, 2010.

## RISK FACTORS

You should carefully consider the risks, uncertainties and other factors described below before you decide whether to buy shares of our common stock. Any of the factors could materially and adversely affect our business, financial condition, operating results and prospects and could negatively impact the market price of our common stock. Below are the significant risks and uncertainties of which we are aware. Additional risks and uncertainties that we do not yet know of, or that we currently think are immaterial, may also impair our business operations. You should also refer to the other information contained in and incorporated by reference into this prospectus, including our financial statements and the related notes.

### Risks Related to our Industry

We have had significant losses and anticipate future losses; if additional funding cannot be obtained, we may reduce or discontinue our product development and commercialization efforts.

We have experienced significant losses since inception and have a significant accumulated deficit. We expect to incur additional operating losses in the future and expect our cumulative losses to increase. As of December 31, 2009, we had \$7.7 million in cash available. Based on our projected budgetary needs and funding from existing grants over the next 18 months, we expect to be able to maintain the current level of our operations beyond the first quarter of 2011 and conduct the pivotal Phase 3 confirmatory clinical trial of orBec® for the treatment of acute GI GVHD.

We have sufficient funds through our existing biodefense grant facilities from the National Institute of Allergy and Infectious Diseases (“NIAID”), a division of the National Institutes of Health (“NIH”), to finance our biodefense projects. On September 21, 2009, we announced that we had received an NIAID grant for approximately \$9.4 million for the development of our biodefense programs. Our biodefense grants have an overhead component that allows us an agency-approved percentage over our incurred costs. We estimate that the overhead component, which is approximately 22% above our subcontracted expenses, will finance some fixed costs for direct employees working on the grants and other administrative costs. We expect that our existing NIH biodefense grants will cover approximately \$600,000 of such fixed overhead costs over the next several years.

Our products are positioned for or are currently in clinical trials, and we have not yet generated any significant revenues from sales or licensing of them. From inception through December 31, 2009, we had expended approximately \$30.2 million developing our current product candidates for pre-clinical research and development and clinical trials, and we currently expect to spend at least \$10 million over the next two years in connection with the development of our therapeutic and vaccine products, licenses, employment agreements, and consulting agreements. Unless and until we are able to generate sales or licensing revenue from orBec®, our lead product candidate, or another one of our product candidates, we will require additional funding to meet these commitments, sustain our research and development efforts, provide for future clinical trials, and continue our operations. There can be no assurance we can raise such funds. If additional funds are raised through the issuance of equity securities, stockholders may experience dilution of their ownership interests, and the newly issued securities may have rights superior to those of the common stock. If additional funds are raised by the issuance of debt, we may be subject to limitations on our operations. If we cannot raise such additional funds, we may have to delay or stop some or all of our drug development programs.

If we are unsuccessful in developing our products, our ability to generate revenues will be significantly impaired.

To be profitable, our organization must, along with corporate partners and collaborators, successfully research, develop and commercialize our technologies or product candidates. Our current product candidates are in various stages of clinical and pre-clinical development and will require significant further funding, research, development,

pre-clinical and/or clinical testing, regulatory approval and commercialization, and are subject to the risks of failure inherent in the development of products based on innovative or novel technologies. Specifically, each of the following is possible with respect to any of our product candidates:

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- we may not be able to maintain our current research and development schedules;
- we may be unsuccessful in our efforts to secure profitable procurement contracts from the U.S. government or others for our biodefense products;
  - we may encounter problems in clinical trials or Named Patient Access programs (“NPAP”); or
    - the technology or product may be found to be ineffective or unsafe.

If any of the risks set forth above occur, or if we are unable to obtain the necessary regulatory approvals as discussed below, we may not be able to successfully develop our technologies and product candidates and our business will be seriously harmed. Furthermore, for reasons including those set forth below, we may be unable to commercialize or receive royalties from the sale of any other technology we develop, even if it is shown to be effective, if:

- it is not economical or the market for the product does not develop or diminishes;
- we are not able to enter into arrangements or collaborations to manufacture and/or market the product;
  - the product is not eligible for third-party reimbursement from government or private insurers;
    - others hold proprietary rights that preclude us from commercializing the product;
      - we are not able to manufacture the product reliably;
      - others have brought to market similar or superior products; or
- the product has undesirable or unintended side effects that prevent or limit its commercial use.

We received a “not approvable letter” from the FDA for our lead product candidate orBec®.

Our business is subject to very stringent U.S., federal, foreign, state and local government laws and regulations, including the Federal Food, Drug and Cosmetic Act, the Environmental Protection Act, the Occupational Safety and Health Act, and state and local counterparts to these acts. These laws and regulations may be amended, additional laws and regulations may be enacted, and the policies of the FDA and other regulatory agencies may change.

On October 18, 2007, we received a “not approvable letter” from the FDA for our lead product candidate, orBec®, for the treatment of acute GI GVHD. The letter stated that the FDA requested data from additional clinical trials to demonstrate the safety and efficacy of orBec®. The FDA also requested nonclinical and chemistry, manufacturing and controls information as part of the not approvable letter. On October 19, 2007, we requested an “End of Review Conference” with the FDA to further understand the letter and gain clarity regarding the next steps. On December 7, 2007, we announced the following guidance from that meeting: (1) a single, confirmatory, Phase 3 clinical trial could provide sufficient evidence of efficacy provided that it is well designed, well executed and provides clinically and statistically meaningful findings; (2) we anticipated working quickly with the FDA to finalize the design of the confirmatory trial under the Agency’s “Special Protocol Assessment” process; and (3) the FDA would be agreeable to reviewing a plan for a Treatment Investigational New Drug (“Treatment IND”) as long as it does not interfere with patient accrual in a confirmatory trial, such as potentially enrolling patients that would not be eligible for the Phase 3 study.

On January 5, 2009, we reached an agreement with the FDA on the design of a confirmatory, pivotal Phase 3 clinical trial evaluating our lead product orBec® for the treatment of acute GI GVHD. The agreement was made under the FDA’s Special Protocol Assessment procedure. The confirmatory Phase 3 clinical trial for the treatment of acute GI GVHD has been initiated and is expected to complete in the first half of 2011.

Although we intend to obtain FDA approval for orBec®, there can be no assurances that the FDA will ever approve orBec® for market launch. Furthermore, the FDA may mandate additional testing or data, which may take additional time and expense to provide.



Our business is subject to extensive governmental regulation, which can be costly, time consuming and subjects us to unanticipated delays.

The regulatory process applicable to our products requires pre-clinical and clinical testing of any product to establish its safety and efficacy. This testing can take many years and require the expenditure of substantial capital and other resources. We may not be able to obtain, or we may experience difficulties and delays in obtaining, necessary domestic and foreign governmental clearances and approvals to market a product. Also, even if regulatory approval of a product is granted, that approval may entail limitations on the indicated uses for which the product may be marketed.

Following any regulatory approval, a marketed product and its manufacturer are subject to continual regulatory review. Later discovery of problems with a product or manufacturer may result in restrictions on such product or manufacturer. These restrictions may include withdrawal of the marketing approval for the product. Furthermore, the advertising, promotion and export, among other things, of a product are subject to extensive regulation by governmental authorities in the U.S. and other countries. If we fail to comply with applicable regulatory requirements, we may be subject to fines, suspension or withdrawal of regulatory approvals, product recalls, seizure of products, operating restrictions and/or criminal prosecution.

There may be unforeseen challenges in developing our biodefense products.

For development of biodefense vaccines and therapeutics, the FDA has instituted policies that are expected to result in accelerated approval. This includes approval for commercial use using the results of animal efficacy trials, rather than efficacy trials in humans. However, we will still have to establish that the vaccines we are developing are safe in humans at doses that are correlated with the beneficial effect in animals. Such clinical trials will also have to be completed in distinct populations that are subject to the countermeasures; for instance, the very young and the very old, and in pregnant women, if the countermeasure is to be licensed for civilian use. Other agencies will have an influence over the risk benefit scenarios for deploying the countermeasures and in establishing the number of doses utilized in the Strategic National Stockpile. We may not be able to sufficiently demonstrate the animal correlation to the satisfaction of the FDA, as these correlates are difficult to establish and are often unclear. Invocation of the animal rule may raise issues of confidence in the model systems even if the models have been validated. For many of the biological threats, the animal models are not available and we may have to develop the animal models, a time-consuming research effort. There are few historical precedents, or recent precedents, for the development of new countermeasure for bioterrorism agents. Despite the Animal Rule, the FDA may require large clinical trials to establish safety and immunogenicity before licensure and it may require safety and immunogenicity trials in additional populations. Approval of biodefense products may be subject to post-marketing studies, and could be restricted in use in only certain populations.

We will be dependent on government funding, which is inherently uncertain, for the success of our biodefense operations.

We are subject to risks specifically associated with operating in the biodefense industry, which is a new and unproven business area. We do not anticipate that a significant commercial market will develop for our biodefense products. Because we anticipate that the principal potential purchasers of these products, as well as potential sources of research and development funds, will be the U.S. government and governmental agencies, the success of our biodefense division will be dependent in large part upon government spending decisions. The funding of government programs is dependent on budgetary limitations, congressional appropriations and administrative allotment of funds, all of which are inherently uncertain and may be affected by changes in U.S. government policies resulting from various political and military developments. Our successful receipt of government funding is also dependant on our ability to adhere to the terms and provisions of the original grant documents and other regulations.





If the parties we depend on for supplying our drug substance raw materials and certain manufacturing-related services do not timely supply these products and services, it may delay or impair our ability to develop, manufacture and market our products. We do not have or are anticipating having internal manufacturing capabilities.

We rely on suppliers for our drug substance raw materials and third parties for certain manufacturing-related services to produce material that meets appropriate content, quality and stability standards, which material will be used in clinical trials of our products and, after approval, for commercial distribution. To succeed, clinical trials require adequate supplies of drug substance and drug product, which may be difficult or uneconomical to procure or manufacture. We and our suppliers and vendors may not be able to (i) produce our drug substance or drug product to appropriate standards for use in clinical studies, (ii) perform under any definitive manufacturing, supply or service agreements with us or (iii) remain in business for a sufficient time to successfully produce and market our product candidates. If we do not maintain important manufacturing and service relationships, we may fail to find a replacement supplier or required vendor or develop our own manufacturing capabilities which could delay or impair our ability to obtain regulatory approval for our products and substantially increase our costs or deplete profit margins, if any. If we do find replacement manufacturers and vendors, we may not be able to enter into agreements with them on terms and conditions favorable to us and, there could be a substantial delay before a new facility could be qualified and registered with the FDA and foreign regulatory authorities.

The manufacture of our products is a highly exacting process, and if we or one of our materials suppliers encounter problems manufacturing our products, our business could suffer.

The FDA and foreign regulators require manufacturers to register manufacturing facilities. The FDA and foreign regulators also inspect these facilities to confirm compliance with current Good Manufacturing Practice (“cGMP”) or similar requirements that the FDA or foreign regulators establish. We, or our materials suppliers, may face manufacturing or quality control problems causing product production and shipment delays or a situation where we or the supplier may not be able to maintain compliance with the FDA’s cGMP requirements, or those of foreign regulators, necessary to continue manufacturing our drug substance. Any failure to comply with cGMP requirements or other FDA or foreign regulatory requirements could adversely affect our clinical research activities and our ability to market and develop our products.

We do not have sales and marketing experience and our lack of experience may restrict our success in commercializing some of our product candidates.

We do not have experience in marketing or selling pharmaceutical products whether in the U.S. or internationally. Although we have a collaboration agreement with Sigma-Tau for the sales and marketing of orBec® in North America, we may be unable to establish additional satisfactory arrangements for marketing, sales and distribution capabilities necessary to commercialize and gain market acceptance for orBec® or our other product candidates. In addition, Sigma-Tau may not be able to effectively commercialize orBec® if it is approved. To obtain the expertise necessary to successfully market and sell orBec®, or any other product, potentially will require the development of our own commercial infrastructure and/or collaborative commercial arrangements and partnerships. Our ability to make that investment and also execute our current operating plan is dependent on numerous factors, including, the performance of third party collaborators with whom we may contract.

Our products, if approved, may not be commercially viable due to change in health care practice and third party reimbursement limitations.

Recent initiatives to reduce the federal deficit and to change health care delivery are increasing cost-containment efforts. We anticipate that Congress, state legislatures and the private sector will continue to review and assess

alternative benefits, controls on health care spending through limitations on the growth of private health insurance premiums and Medicare and Medicaid spending, price controls on pharmaceuticals, and other fundamental changes to the health care delivery system. Any changes of this type could negatively impact the commercial viability of our products, if approved. Our ability to successfully commercialize our product candidates, if they are approved, will depend in part on the extent to which appropriate reimbursement codes and authorized cost reimbursement levels of these products and related treatment are obtained from governmental authorities, private health insurers and other organizations, such as health maintenance organizations. In the absence of national Medicare coverage determination, local contractors that administer the Medicare program may make their own coverage decisions. Any of our product candidates, if approved and when commercially available, may not be included within the then current Medicare coverage determination or the coverage determination of state Medicaid programs, private insurance companies or other health care providers. In addition, third-party payers are increasingly challenging the necessity and prices charged for medical products, treatments and services.

We may not be able to retain rights licensed to us by third parties to commercialize key products or to develop the third party relationships we need to develop, manufacture and market our products.

We currently rely on license agreements from the University of Texas Southwestern Medical Center, the University of Texas Medical Branch at Galveston, and George B. McDonald, MD for the rights to commercialize key product candidates. We may not be able to retain the rights granted under these agreements or negotiate additional agreements on reasonable terms, or at all.

Furthermore, we currently have very limited product development capabilities and no manufacturing, marketing or sales capabilities. For us to research, develop and test our product candidates, we need to contract or partner with outside researchers, in most cases with or through those parties that did the original research and from whom we have licensed the technologies. If products are successfully developed and approved for commercialization, then we will need to enter into additional collaboration and other agreements with third parties to manufacture and market our products. We may not be able to induce the third parties to enter into these agreements, and, even if we are able to do so, the terms of these agreements may not be favorable to us. Our inability to enter into these agreements could delay or preclude the development, manufacture and/or marketing of some of our product candidates or could significantly increase the costs of doing so. In the future, we may grant to our development partners rights to license and commercialize pharmaceutical and related products developed under the agreements with them, and these rights may limit our flexibility in considering alternatives for the commercialization of these products. Furthermore, third-party manufacturers or suppliers may not be able to meet our needs with respect to timing, quantity and quality for the products.

Additionally, if we do not enter into relationships with additional third parties for the marketing of our products, if and when they are approved and ready for commercialization, we would have to build our own sales force. If our collaboration agreement with Sigma-Tau were to be terminated, we would need to establish and build our own sales force in North America or enter into an agreement for the commercialization of orBec® with another company. Development of an effective sales force in any part of the world would require significant financial resources, time and expertise. We may not be able to obtain the financing necessary to establish a sales force in a timely or cost effective manner, if at all, and any sales force we are able to establish may not be capable of generating demand for our product candidates, if they are approved.

We may suffer product and other liability claims; we maintain only limited product liability insurance, which may not be sufficient.

The clinical testing, manufacture and sale of our products involves an inherent risk that human subjects in clinical testing or consumers of our products may suffer serious bodily injury or death due to side effects, allergic reactions or other unintended negative reactions to our products. As a result, product and other liability claims may be brought against us. We currently have clinical trial and product liability insurance with limits of liability of \$5 million, which may not be sufficient to cover our potential liabilities. Because liability insurance is expensive and difficult to obtain, we may not be able to maintain existing insurance or obtain additional liability insurance on acceptable terms or with adequate coverage against potential liabilities. Furthermore, if any claims are brought against us, even if we are fully covered by insurance, we may suffer harm such as adverse publicity.

We may not be able to compete successfully with our competitors in the biotechnology industry.

The biotechnology industry is intensely competitive, subject to rapid change and sensitive to new product introductions or enhancements. Most of our existing competitors have greater financial resources, larger technical staffs, and larger research budgets than we have, as well as greater experience in developing products and conducting clinical trials. Our competition is particularly intense in the gastroenterology and transplant areas and is also intense in the therapeutic area of inflammatory bowel diseases. We face intense competition in the biodefense area from various public and private companies and universities as well as governmental agencies, such as the U.S. Army, which may have their own proprietary technologies that may directly compete with our technologies. In addition, there may be other companies that are currently developing competitive technologies and products or that may in the future develop technologies and products that are comparable or superior to our technologies and products. We may not be able to compete successfully with our existing and future competitors.

We may be unable to commercialize our products if we are unable to protect our proprietary rights, and we may be liable for significant costs and damages if we face a claim of intellectual property infringement by a third party.

Our success depends in part on our ability to obtain and maintain patents, protect trade secrets and operate without infringing upon the proprietary rights of others. In the absence of patent and trade secret protection, competitors may adversely affect our business by independently developing and marketing substantially equivalent or superior products and technology, possibly at lower prices. We could also incur substantial costs in litigation and suffer diversion of attention of technical and management personnel if we are required to defend ourselves in intellectual property infringement suits brought by third parties, with or without merit, or if we are required to initiate litigation against others to protect or assert our intellectual property rights. Moreover, any such litigation may not be resolved in our favor.

Although we and our licensors have filed various patent applications covering the uses of our product candidates, patents may not be issued from the patent applications already filed or from applications that we might file in the future. Moreover, the patent position of companies in the pharmaceutical industry generally involves complex legal and factual questions, and recently has been the subject of much litigation. Any patents we have obtained, or may obtain in the future, may be challenged, invalidated or circumvented. To date, no consistent policy has been developed in the U.S. Patent and Trademark Office regarding the breadth of claims allowed in biotechnology patents.

In addition, because patent applications in the U.S. are maintained in secrecy until patents issue, and because publication of discoveries in the scientific or patent literature often lags behind actual discoveries, we cannot be certain that we and our licensors are the first creators of inventions covered by any licensed patent applications or patents or that we or they are the first to file. The Patent and Trademark Office may commence interference proceedings involving patents or patent applications, in which the question of first inventorship is contested. Accordingly, the patents owned or licensed to us may not be valid or may not afford us protection against competitors with similar technology, and the patent applications licensed to us may not result in the issuance of patents.

It is also possible that our patented technologies may infringe on patents or other rights owned by others, licenses to which may not be available to us. We may not be successful in our efforts to obtain a license under such patent on terms favorable to us, if at all. We may have to alter our products or processes, pay licensing fees or cease activities altogether because of patent rights of third parties.

In addition to the products for which we have patents or have filed patent applications, we rely upon unpatented proprietary technology and may not be able to meaningfully protect our rights with regard to that unpatented proprietary technology. Furthermore, to the extent that consultants, key employees or other third parties apply technological information developed by them or by others to any of our proposed projects, disputes may arise as to the

proprietary rights to this information, which may not be resolved in our favor.

Our business could be harmed if we fail to retain our current personnel or if they are unable to effectively run our business.

We currently have only 14 employees and we depend upon these employees to manage the day-to-day activities of our business. Because we have such limited personnel, the loss of any of them or our inability to attract and retain other qualified employees in a timely manner would likely have a negative impact on our operations. We will not be successful if our management team cannot effectively manage and operate our business. Several members of our board of directors are associated with other companies in the biopharmaceutical industry. Stockholders should not expect an obligation on the part of these board members to present product opportunities to us of which they become aware outside of their capacity as members of our board of directors.

Instability and volatility in the financial markets could have a negative impact on our business, financial condition, results of operations, and cash flows.

During recent months, there has been substantial volatility and a decline in financial markets due at least in part to the deteriorating global economic environment. In addition, there has been substantial uncertainty in the capital markets and access to additional financing is uncertain. Moreover, customer spending habits may be adversely affected by the current economic crisis. These conditions could have an adverse effect on our industry and business, including our financial condition, results of operations, and cash flows.

To the extent that we do not generate sufficient cash from operations, we may need to issue stock or incur indebtedness to finance our plans for growth. Recent turmoil in the credit markets and the potential impact on the liquidity of major financial institutions may have an adverse effect on our ability to fund our business strategy through borrowings, under either existing or newly created instruments in the public or private markets on terms we believe to be reasonable, if at all.

#### Risks Related to our Common Stock

Our common stock price is highly volatile.

The market price of our common stock, like that of many other research and development public pharmaceutical and biotechnology companies, has been highly volatile and may continue to be so in the future due to a wide variety of factors, including:

- announcements by us or others of results of pre-clinical testing and clinical trials;
- announcements of technological innovations, more important bio-threats or new commercial therapeutic products by us, our collaborative partners or our present or potential competitors;
  - our quarterly operating results and performance;
  - developments or disputes concerning patents or other proprietary rights;
    - acquisitions;
    - litigation and government proceedings;
      - adverse legislation;
    - changes in government regulations;
      - our available working capital;
  - economic and other external factors; and
    - general market conditions.

Our stock price has fluctuated over the last year between a high of \$0.38 per share to a low of \$0.06 per share. As of April 27, 2010, our common stock traded at \$0.29 per share. The fluctuation in the price of our common stock has

sometimes been unrelated or disproportionate to our operating performance. In addition, potential dilutive effects of future sales of shares of common stock by the Company, and subsequent sale of common stock by the holders of warrants and options, could have an adverse effect on the market price of our shares.

Our common stock trades on the Over-the-Counter Bulletin Board.

Our common stock trades on the Over-The-Counter Bulletin Board (“OTCBB”) securities market under the symbol “SNGX.” The OTCBB is a decentralized market regulated by the Financial Industry Regulatory Authority in which securities are traded via an electronic quotation system that serves more than 3,000 companies. On the OTCBB, securities are traded by a network of brokers or dealers who carry inventories of securities to facilitate the buy and sell orders of investors, rather than providing the order matchmaking service seen in specialist exchanges. OTCBB securities include national, regional, and foreign equity issues. Companies traded on the OTCBB must be current in their reports filed with the Securities and Exchange Commission (“SEC”) and other regulatory authorities.

If our common stock is not listed on a national exchange or market, the trading market for our common stock may become illiquid. Our common stock is subject to the penny stock rules of the SEC, which generally are applicable to equity securities with a price of less than \$5.00 per share, other than securities registered on certain national securities exchanges or quoted on the NASDAQ system, provided that current price and volume information with respect to transactions in such securities is provided by the exchange or system. The penny stock rules require a broker-dealer, before a transaction in a penny stock not otherwise exempt from the rules, to deliver a standardized risk disclosure document prepared by the SEC that provides information about penny stocks and the nature and level of risks in the penny stock market. The broker-dealer also must provide the customer with bid and ask quotations for the penny stock, the compensation of the broker-dealer and its salesperson in the transaction and monthly account statements showing the market value of each penny stock held in the customer’s account. In addition, the penny stock rules require that, before a transaction in a penny stock that is not otherwise exempt from such rules, the broker-dealer must make a special written determination that the penny stock is a suitable investment for the purchaser and receive the purchaser’s written agreement to the transaction. As a result of these requirements, our common stock could be priced at a lower price and our stockholders could find it more difficult to sell their shares.

Shareholders may suffer substantial dilution related to issued stock warrants and options.

We have a number of agreements or obligations that may result in dilution to investors. These include:

- warrants to purchase a total of approximately 42,527,874 shares of our common stock at a current weighted average exercise price of approximately \$0.241; and
- options to purchase approximately 18,763,539 shares of our common stock at a current weighted average exercise price of approximately \$0.242.

To the extent that warrants or options are exercised, our stockholders will experience dilution and our stock price may decrease.

The sale of our common stock to Fusion Capital may cause dilution and the sale of the shares of common stock acquired by Fusion Capital could cause the price of our common stock to decline.

On February 14, 2008, we entered into an \$8,500,000 common stock purchase agreement with Fusion Capital. The Fusion Capital facility, as amended, allows us to require Fusion Capital to purchase between \$80,000 and \$1.0 million, depending on certain conditions, of our common stock up to an aggregate of \$8.5 million over approximately a 43-month period, ending on October 31, 2011. As part of that agreement, we issued Fusion Capital 1,275,000 shares of common stock as a commitment fee. In connection with the execution of the common stock purchase agreement, Fusion Capital purchased 2,777,778 common shares and a four-year warrant to purchase 1,388,889 shares of common stock at \$0.22 per share, for an aggregate price of \$500,000. Through April 2010, we have issued an additional 2,015,290 shares of common stock and a five-year warrant to purchase 100,000 shares of common stock at \$0.303 per share and received an additional \$312,500 from the Fusion Capital facility.





In connection with entering into the agreement, we authorized the sale to Fusion Capital of up to 25,327,778 shares of our common stock. The number of shares ultimately offered for sale by Fusion Capital is dependent upon the number of shares purchased by Fusion Capital under the agreement. The purchase price for the common stock to be sold to Fusion Capital pursuant to the common stock purchase agreement will fluctuate based on the price of our common stock. All 25,327,778 shares registered for sale by Fusion Capital are freely tradable. It is anticipated that those shares will be sold over a period of up to 18 months from the date of this prospectus. Depending upon market liquidity at the time, a sale of shares under the registration statement at any given time could cause the trading price of our common stock to decline. Fusion Capital may ultimately purchase all, some or none of the approximately 18 million shares of common stock not yet issued. After it has acquired such shares, it may sell all, some or none of such shares. Therefore, sales to Fusion Capital by us under the agreement may result in substantial dilution to the interests of other holders of our common stock. The sale of a substantial number of shares of our common stock, or anticipation of such sales, could make it more difficult for us to sell equity or equity-related securities in the future at a time and at a price that we might otherwise wish to effect sales. However, we have the right to control the timing and amount of any sales of our shares to Fusion Capital and the agreement may be terminated by us at any time at our discretion without any cost to us.

The common stock purchase agreement with Fusion Capital also may be terminated in the event of a default under the agreement. In addition, we cannot require Fusion Capital to purchase any shares of our common stock if the purchase price is less than \$0.10 per share. Thus, we may be unable to sell shares of our common stock to Fusion Capital when we need the funds, and that could severely harm our business and financial condition and our ability to continue to develop and commercialize our products. The closing price of our common stock on April 27, 2010 was \$0.29 per share.

Our shares of common stock are thinly traded, so stockholders may be unable to sell at or near ask prices or at all if they need to sell shares to raise money or otherwise desire to liquidate their shares.

Our common stock has from time to time been “thinly-traded,” meaning that the number of persons interested in purchasing our common stock at or near ask prices at any given time may be relatively small or non-existent. This situation is attributable to a number of factors, including the fact that we are a small company that is relatively unknown to stock analysts, stock brokers, institutional investors and others in the investment community that generate or influence sales volume, and that even if we came to the attention of such persons, they tend to be risk-averse and would be reluctant to follow an unproven company such as ours or purchase or recommend the purchase of our shares until such time as we become more seasoned and viable. As a consequence, there may be periods of several days or more when trading activity in our shares is minimal or non-existent, as compared to a seasoned issuer which has a large and steady volume of trading activity that will generally support continuous sales without an adverse effect on share price. We cannot give stockholders any assurance that a broader or more active public trading market for our common shares will develop or be sustained, or that current trading levels will be sustained.

## BUSINESS

### Our Business Overview

Soligenix, Inc., formerly known as DOR BioPharma, Inc., was incorporated in Delaware in 1987. We are a late-stage research and development biopharmaceutical company focused on developing products to treat the life-threatening side effects of cancer treatment and serious gastrointestinal diseases where there remains an unmet medical need, as well as developing biodefense vaccines and therapeutics. We maintain two active business segments: BioTherapeutics and BioDefense. Our BioTherapeutics business segment intends to develop orBec® (oral beclomethasone dipropionate, or oral BDP) and other biotherapeutic products, including LPMTM Leuprolide. Our BioDefense business segment intends to convert its ricin toxin vaccine and radiation injury program from early stage development to advanced development and manufacturing.

Our business activities can be outlined as follows:

- complete the pivotal Phase 3 confirmatory clinical trial for orBec® in the treatment of acute gastrointestinal Graft-versus-Host disease (“GI GVHD”);
- identify a development and marketing partner for orBec® for territories outside of North America, as we have granted an exclusive license to Sigma-Tau Pharmaceuticals, Inc. to commercialize orBec® in the U.S., Canada and Mexico;
  - conduct and complete a Phase 2 clinical trial of orBec® for the prevention of acute GVHD;
- evaluate and initiate additional clinical trials to explore the effectiveness of oral BDP in other therapeutic indications involving inflammatory conditions of the gastrointestinal tract such as radiation enteritis, radiation injury and Crohn’s disease;
  - reinitiate development of our other biotherapeutics products, including LPMTM Leuprolide;
- continue to secure additional government funding for each of our BioDefense programs through grants, contracts and procurements;
- convert our biodefense vaccine programs from early stage development to advanced development and manufacturing with the potential to collaborate and/or partner with other companies in the biodefense area;
  - acquire or in-license new clinical-stage compounds for development; and
    - explore other business development and acquisition strategies.

Our principal executive offices are located at 29 Emmons Drive, Suite C-10, Princeton, New Jersey 08540 and our telephone number is (609) 538-8200.

## Our Products in Development

The following tables summarize the products that we are currently developing:

## BioTherapeutic Products

| Soligenix Product  | Therapeutic Indication            | Stage of Development                              |
|--------------------|-----------------------------------|---|
| orBec®             | Treatment of Acute GI GVHD        | Pivotal Phase 3 confirmatory trial enrolling      |
| orBec®             | Prevention of Acute GI GVHD       | Phase 2 trial enrolling                           |
| orBec®             | Treatment of Chronic GI GVHD      | Phase 2 trial potentially to be initiated in 2010 |
| SGX 201            | Acute Radiation Enteritis         | Phase 1/2 trial initiated                         |
| LPM™<br>Leuprolide | Endometriosis and Prostate Cancer | Phase 1 trial potentially to be initiated in 2010 |

## BioDefense Products

| Target           | Available Countermeasure                      | Soligenix Product   |
|------------------|---|---|
| Ricin Toxin      | No vaccine or antidote currently FDA approved | Injectable ricin vaccine<br>Phase 1 clinical trial successfully completed<br>Second Phase 1 trial enrolling |
| Radiation Injury | No vaccine or antidote currently FDA approved | SGX 202 (pre-clinical)  |

## BioTherapeutics Overview

## orBec® and oral BDP

orBec® represents a first-of-its-kind oral, locally acting therapy tailored to treat the gastrointestinal manifestation of GI GVHD, the organ system where GVHD is most frequently encountered and highly problematic. orBec® is intended to reduce the need for systemic immunosuppressive drugs to treat acute GI GVHD. The active ingredient in orBec® is beclomethasone dipropionate (“BDP”), a highly potent, topically active corticosteroid that has a local effect on inflamed tissue. BDP has been marketed in the U.S. and worldwide since the early 1970’s as the active pharmaceutical ingredient in a nasal spray and in a metered-dose inhaler for the treatment of patients with allergic rhinitis and asthma. orBec® is specifically formulated for oral administration as a single product consisting of two tablets. One tablet is intended to release BDP in the upper sections of the GI tract and the other tablet is intended to release BDP in the lower sections of the GI tract.

Based on data from the prior Phase 3 study of orBec®, the current confirmatory Phase 3 study is a highly powered, double-blind, randomized, placebo-controlled, multi-center trial and will seek to enroll an estimated 166 patients. The primary endpoint is the treatment failure rate at Study Day 80. This endpoint was successfully measured as a secondary endpoint (p-value 0.005) in the previous Phase 3 study as a key measure of durability following a 50-day course of treatment with orBec® (i.e., 30 days following cessation of treatment).

In addition to issued patents and pending worldwide patent applications held by or exclusively licensed to us, orBec® would potentially benefit from orphan drug designations in the U.S. and in Europe for the treatment of GI GVHD, as well as an orphan drug designation in the U.S for the treatment of chronic GI GVHD. Orphan drug designations provide for 7 and 10 years of market exclusivity upon approval in the U.S and Europe, respectively.

## Historical Background

Two prior randomized, double-blind, placebo-controlled Phase 2 and 3 clinical trials support orBec®'s ability to provide clinically meaningful outcomes when compared with the current standard of care, including a lowered exposure to systemic corticosteroids following allogeneic transplantation. Currently, there are no approved products to treat GI GVHD. The first trial was a 60-patient Phase 2 single-center clinical trial conducted at the Fred Hutchinson Cancer Research Center ("FHCRC") in Seattle, Washington. The second trial was a 129-patient pivotal Phase 3 multi-center clinical trial of orBec® conducted at 16 leading bone marrow/stem cell transplantation centers in the U.S. and France. Although orBec® did not achieve statistical significance in the primary endpoint of its pivotal trial, namely median time-to-treatment failure through Day 50 (p-value 0.1177), orBec® did achieve statistical significance in other key secondary endpoints such as the proportion of patients free of GVHD at Day 50 (p-value 0.05) and Day 80 (p-value 0.005) and the median time-to-treatment failure through Day 80 (p-value 0.0226), as well as a 66% reduction in mortality among patients randomized to orBec® at 200 days post-transplant with only 5 patient (8%) deaths in the orBec® group compared to 16 patient (24%) deaths in the placebo group (p-value 0.0139). Within one year after randomization in the pivotal Phase 3 trial, 18 patients (29%) in the orBec® group and 28 patients (42%) in the placebo group died (46% reduction in mortality, p-value 0.04).

In the Phase 2 study, the primary endpoint was the clinically relevant determination of whether GI GVHD patients at Day 30 (the end of treatment) had a durable GVHD treatment response as measured by whether or not they were able to consume at least 70% of their estimated caloric requirement. The GVHD treatment response at Day 30 was 22 of 31 (71%) vs. 12 of 29 (41%) in the orBec® and placebo groups, respectively (p-value 0.02). Additionally, the GVHD treatment response at Day 40 (10 days post cessation of therapy) was 16 of 31 (52%) vs. 5 of 29 (17%) in the orBec® and placebo groups, respectively (p-value 0.007).

Based on the data from the above referenced Phase 2 and Phase 3 studies, on September 21, 2006, we filed a new drug application ("NDA") for our lead product orBec® with the U.S. Food and Drug Administration ("FDA") for the treatment of acute GI GVHD. On October 18, 2007, we received a not approvable letter from the FDA in response to our NDA for orBec® for the treatment of acute GI GVHD. In the letter, the FDA requested additional clinical trial data to demonstrate the safety and efficacy of orBec®. The FDA also requested nonclinical and chemistry, manufacturing and controls information as part of this letter.

In December 2008, we reached agreement with the FDA on the design of a confirmatory, pivotal Phase 3 clinical trial evaluating orBec® for the treatment of acute GI GVHD under the FDA's Special Protocol Assessment ("SPA") procedure. An agreement via the SPA procedure is an agreement with the FDA that a Phase 3 clinical trial design (e.g., endpoints, sample size, control group and statistical analyses) is acceptable to support a regulatory submission seeking new drug approval. After the study begins, the FDA can only change a SPA for very limited reasons. Further, in June 2009, we received Protocol Assistance feedback from the European Medicines Agency ("EMA") on the design of the Phase 3 clinical trial for orBec®. The EMA agreed that should the new confirmatory Phase 3 study produce positive results, the data would be sufficient to support a marketing authorization in all 27 European Union member states. The confirmatory Phase 3 trial has been initiated and is expected to complete in the first half of 2011.

If the confirmatory Phase 3 trial is successful, we will file a complete response to the FDA action letter. This response is expected to be designated a class II response with a corresponding FDA review time frame of 6months.

We have entered into a collaboration agreement with Numoda Corporation ("Numoda") for the execution of our confirmatory Phase 3 clinical trial of orBec®. Collaborating with Numoda will allow us to take advantage of a scope of services including using their industry benchmarking capabilities to develop an operational and financial plan including the use of a proprietary management and oversight capabilities process. As part of the collaboration, Numoda has agreed to accept our common stock as payment in exchange for a portion of its services in connection

with the conduct of the confirmatory Phase 3 clinical trial. To date, we have issued 3,250,447 shares of common stock to Numoda in partial payment for its services. Working with Numoda, we also will be able to take full advantage of early reporting of results to potential licensing partners and others.

We are currently enrolling patients in a randomized, double blind, placebo-controlled, Phase 2 clinical trial of orBec® for the prevention of acute GVHD after allogeneic hematopoietic cell transplantation (“HCT”) with myeloablative conditioning regimens. The trial is being conducted by Paul Martin, M.D., at the FHCRC and is being supported, in large part, by a grant from the National Institutes of Health. We will not receive any direct monetary benefit from this grant, but if successful, this funded trial could serve to increase the value of our orBec®/oral BDP program. The Phase 2 trial will seek to enroll up to 138 (92 orBec® and 46 placebo) patients. The primary endpoint of the trial is the proportion of subjects who develop acute GVHD with severity sufficient to require systemic immunosuppressive treatment on or before day 90 after transplantation. Patients in this study will begin dosing at the start of the conditioning regimen and continue through day 75 following HCT. This trial is expected to complete enrollment in the first half of 2010.

### Mortality Results

|  | Phase 3 Trial     |          | Phase 2 Trial     |         |
|--|-------------------|----------|-------------------|---------|
|  | orBec®            | Placebo  | orBec®            | Placebo |
| Number of patients randomized          | 62                | 67       | 31                | 29      |
| Number (%) who died                    | 5 (8%)            | 16 (24%) | 3 (10%)           | 6 (21%) |
| Hazard ratio (95% confidence interval) | 0.33 (0.12, 0.89) |          | 0.47 (0.12, 1.87) |         |
| Death with infection*                  | 3 (5%)            | 9 (13%)  | 2 (6%)            | 5 (17%) |
| Death with relapse*                    | 3 (5%)            | 9 (13%)  | 1 (3%)            | 4 (14%) |

\*Some patients died with both infection and relapse of their underlying malignancy.

Among the data from the Phase 3 clinical study of orBec® reported in the January 2007 issue of Blood, the peer-reviewed Journal of the American Society of Hematology, survival at the pre-specified endpoint of 200 days post-transplantation showed a clinically meaningful and statistically significant result. According to the manuscript, “the risk of mortality during the 200-day post-transplantation period was 67% lower with orBec® treatment compared to placebo treatment (hazard ratio 0.33; 95% CI: 0.12, 0.89; p-value 0.03, Wald chi-square test).” The most common proximate causes of death by transplantation day-200 were relapse of the underlying malignancy and infection. Relapse of the underlying hematologic malignancy had contributed to the deaths of 9/67 patients (13.4%) in the placebo arm and 3/62 patients (4.8%) in the BDP arm. Infection contributed to the deaths of 9/67 patients (13.4%) in the placebo arm and 3/62 (4.8%) in the BDP arm. Acute or chronic GVHD was the proximate cause of death in 3/67 patients (4.5%) in the placebo arm and in 1/62 (1.6%) in the BDP arm.

In addition, a subgroup analysis also revealed that patients dosed with orBec® who had received stem cells from unrelated donors had a 94% reduction in the risk of mortality 200 days post-transplantation.

In this Phase 3 study, orBec® showed continued survival benefit when compared to placebo one year after randomization. Overall, 18 patients (29%) in the orBec® group and 28 patients (42%) in the placebo group died within one year of randomization (46% reduction in mortality, p-value 0.04). Results from the Phase 2 trial also demonstrated enhanced long-term survival benefit with orBec® versus placebo. In that study, at one year after randomization, 6 of 31 patients (19%) in the orBec® group had died while 9 of 29 patients (31%) in the placebo group had died (45% reduction in mortality, p-value 0.26). Pooling the survival data from both trials demonstrated that the survival benefit of orBec® treatment was sustained long after orBec® was discontinued and extended well beyond 3 years after the transplantation. As of September 25, 2005, median follow-up of patients in the two trials was 3.5 years (placebo patients) and 3.6 years (orBec® patients), with a range of 10.6 months to 11.1 years. The risk of mortality was 37% lower for patients randomized to orBec® compared with placebo (p-value 0.03).



A retrospective analysis of survival at 200 days post-transplantation in the supportive Phase 2 clinical trial showed consistent response rates with the Phase 3 trial; three patients (10%) who had been randomized to orBec® had died, compared with six deaths (21%) among patients who had been randomized to placebo, leading to a reduced hazard of day-200 mortality, although not statistically significantly different. Detailed analysis of the likely proximate cause of death showed that mortality with infection or with relapse of underlying malignancy were both reduced in the same proportion after treatment with orBec® compared to placebo. By transplantation day-200, relapse of hematologic malignancy had contributed to the deaths of 1 of 31 patients (3%) in the orBec® arm and 4 of 29 patients (14%) in the placebo arm. Infection contributed to the deaths of 2 of 31 patients (6%) in the orBec® arm and 5 of 29 patients (17%) in the placebo arm.

## Safety and Adverse Events

The frequencies of severe adverse events, adverse events related to study drug, and adverse events resulting in study drug discontinuation were all comparable to that of the placebo group in both trials. Patients who remained on orBec® until Day 50 in the Phase 3 study had a higher likelihood of having biochemical evidence of abnormal hypothalamic-pituitary-adrenal axis function compared to patients on placebo. This effect was far less pronounced than those seen in patients on high dose prednisone.

## Commercialization and Market

We anticipate the market potential for orBec® for the treatment of acute GI GVHD to be approximately 50% of the more than 10,000 allogeneic bone marrow and stem cell transplantations that occur each year in the U.S.

On February 11, 2009, we entered into a collaboration and supply agreement with Sigma-Tau Pharmaceuticals, Inc. for the commercialization of orBec®. Sigma-Tau is a pharmaceutical company that develops novel therapies for the unmet needs of patients with rare diseases. Pursuant to this agreement, Sigma-Tau has an exclusive license to commercialize orBec® in the U.S., Canada and Mexico (the “Territory”). Sigma-Tau is obligated to make payments upon the attainment of significant milestones, as set forth in the agreement. The first milestone payment of \$1 million was made in connection with the enrollment of the first patient in our confirmatory Phase 3 clinical trial of orBec® for the treatment of acute GI GVHD in September 2009. Total additional milestone payments due from Sigma-Tau for orBec® under the agreement could reach up to \$9 million. Sigma-Tau will pay us a 35% royalty (inclusive of drug supply) on net sales in the Territory as well as pay for commercialization expenses, including launch activities. In connection with the execution of the collaboration and supply agreement, we entered into a common stock purchase agreement with Sigma-Tau pursuant to which we sold 25 million shares of our common stock to Sigma-Tau for \$0.18 per share, for an aggregate price of \$4,500,000. The purchase price is equal to one hundred fifty percent (150%) of the average trading price of our common stock over the five trading days prior to February 11, 2009. On November 26, 2008, prior to entering the collaboration agreement, we sold Sigma-Tau 16,666,667 common shares at \$0.09 per share (the market price at the time) for proceeds of \$1,500,000 in exchange for the exclusive right to negotiate a collaboration deal with us until March 1, 2009.

Additionally, orBec® is currently available in Named Patient Access Programs (“NPAPs”) in South Korea, Latin America, Canada, Singapore, Malaysia, Australia, South Africa, New Zealand and the ASEAN countries. The NPAPs are compassionate use drug supply programs under which medical practitioners can legally supply investigational drugs to their eligible patients. Under this program, drugs can be administered to patients who are suffering from serious illnesses prior to the drug being approved by the various regional regulatory authorities.

We believe the potential worldwide market for orBec® to be approximately \$400 million for all GVHD applications, namely, treatment of acute and chronic GI GVHD and prevention of acute GVHD.

## About GVHD

GVHD occurs in patients following allogeneic stem cell transplantation in which tissues of the host, most frequently the gut, liver, and skin, are attacked by lymphocytes from the donor (graft) marrow. Patients with mild to moderate GI GVHD present to the clinic with early satiety, anorexia, nausea, vomiting and diarrhea. If left untreated, symptoms of GI GVHD persist and can progress to necrosis and exfoliation of most of the epithelial cells of the intestinal mucosa, frequently a fatal condition. Approximately 50% of the more than 10,000 annual allogeneic transplantation patients in the U.S. will develop some form of acute GI GVHD.

GI GVHD is one of the most common causes for the failure of stem cell transplantation. These procedures are being increasingly utilized to treat leukemia and other cancer patients with the prospect of eliminating residual disease and reducing the likelihood of relapse. orBec® represents a first-of-its-kind oral, locally acting therapy tailored to treat the gastrointestinal manifestation of GVHD, the organ system where GVHD is most frequently encountered and highly problematic. orBec® is intended to reduce the need for systemic immunosuppressives to treat acute GI GVHD. Currently used systemic immunosuppressives utilized to control GI GVHD substantially inhibit the highly desirable Graft-versus-Leukemia (“GVL”) effect of stem cell transplantations, leading to high rates of aggressive forms of relapse, as well as substantial rates of mortality due to opportunistic infection.

## About Allogeneic Hematopoietic Cell Transplantation

Allogeneic hematopoietic cell transplantation (“HCT”) is considered a potentially curative option for many leukemias as well as other forms of blood cancer. In an allogeneic HCT procedure, hematopoietic stem cells are harvested from the blood or bone marrow of a closely matched relative or unrelated person, and are transplanted into the patient following either high-dose chemotherapy or intense immunosuppressive conditioning therapy. The curative potential of allogeneic HCT is now partly attributed to the GVL or Graft-versus-Tumor effects of the newly transplanted donor cells to recognize and destroy malignant cells in the recipient patient.

The use of allogeneic HCT has grown substantially over the last decade due to advances in human immunogenetics, the establishment of unrelated donor programs, the use of cord blood as a source of hematopoietic stem cells and the advent of non-myeloablative conditioning regimens, or mini-transplants, that avoid the side effects of high-dose chemotherapy. Based on the latest statistics available, it is estimated that there are more than 10,000 allogeneic HCT procedures annually in the U.S. and a comparable number in Europe. Estimates as to the current annual rate of increase in these procedures are as high as 20%. High rates of morbidity and mortality occur in this patient population. Clinical trials are also underway testing allogeneic HCT for treatment of some metastatic solid tumors such as breast cancer, renal cell carcinoma, melanoma and ovarian cancer. Allogeneic transplantation has also been studied as a curative therapy for several genetic disorders, including immunodeficiency syndromes, inborn errors of metabolism, and sickle cell disease. The primary toxicity of allogeneic HCT, however, is GVHD in which the newly transplanted donor cells damage cells in the recipient’s gastrointestinal tract, liver and skin.

## Future Potential Indications of orBec® and oral BDP

Based on its pharmacological characteristics, orBec® may have utility in treating other conditions of the gastrointestinal tract having an inflammatory component. We have an issued U.S. patent 6,096,731 claiming the use of oral BDP as a method for preventing and treating the tissue damage that is associated with both GI GVHD following HCT, as well as GVHD which also occurs following organ allograft transplantation. We initiated a Phase 2 trial of orBec® in the prevention of acute GVHD and are expecting to complete enrollment in the first half of 2010. We expect to begin a Phase 2 clinical trial in chronic GI GVHD in the second half of 2010. In addition, we are exploring the possibility of testing oral BDP (the active ingredient in orBec®) for local inflammation associated with Crohn’s Disease, Lymphocytic Colitis, Irritable Bowel Syndrome, Ulcerative Colitis, among other indications.



#### SGX201- Time Release Formulation of oral BDP

We have recently initiated a Phase 1/2 clinical trial in acute radiation enteritis for which we have received “Fast Track” designation from the FDA. Fast Track is a designation that the FDA reserves for a drug intended to treat a serious or life-threatening condition and one that demonstrates the potential to address an unmet medical need for the condition. Fast track designation is designed to facilitate the development and expedite the review of new drugs. For instance, should events warrant, we will be eligible to submit an NDA for SGX201 on a rolling basis, permitting the FDA to review sections of the NDA prior to receiving the complete submission. Additionally, NDAs for Fast Track development programs ordinarily will be eligible for priority review, which implies an abbreviated review time of six months.

SGX201 contains BDP, a highly potent, topically active corticosteroid that has a local effect on inflamed tissue. BDP has been marketed in the U.S. and worldwide since the early 1970s as the active pharmaceutical ingredient in inhalation products for the treatment of patients with allergic rhinitis and asthma. BDP is also the active ingredient in orBec®, currently in Phase 3 and Phase 2 development by Soligenix for the treatment and prevention of GI GVHD, respectively. SGX201 is a time-release formulation of BDP specifically designed for oral use.

Patients with rectal cancer who are scheduled to undergo concurrent radiation and chemotherapy prior to surgery will be enrolled in four dose groups. The objectives of the study are to evaluate the safety and maximal tolerated dose of escalating doses of SGX201, as well as the preliminary efficacy of SGX201 for prevention of signs and symptoms of acute radiation enteritis. This program is supported in part by a \$500,000 two-year Small Business Innovation Research (“SBIR”) grant awarded by the NIH.

The study is expected to be completed in the first half of 2011.

#### About Acute Radiation Enteritis

External radiation therapy is used to treat most types of cancer, including cancer of the bladder, uterine, cervix, rectum, prostate, and vagina. During delivery of treatment, some level of radiation will also be delivered to healthy tissue, including the bowel, leading to acute and chronic toxicities. The large and small bowels are very sensitive to radiation and the larger the dose of radiation the greater the damage to normal bowel tissue. Radiation enteritis is a condition in which the lining of the bowel becomes swollen and inflamed during or after radiation therapy to the abdomen, pelvis, or rectum. Most tumors in the abdomen and pelvis need large doses, and almost all patients receiving radiation to the abdomen, pelvis, or rectum will show signs of acute enteritis.

Patients with acute enteritis may have nausea, vomiting, abdominal pain and bleeding, among other symptoms. Some patients may develop dehydration and require hospitalization. With diarrhea, the gastrointestinal tract does not function normally, and nutrients such as fat, lactose, bile salts, and vitamin B12 are not well absorbed.

Symptoms will usually resolve within 2-6 weeks after therapy has ceased. Radiation enteritis is often not a self-limited illness, as over 80% of patients who receive abdominal radiation therapy complain of a persistent change in bowel habits. Moreover, acute radiation injury increases the risk of development of chronic radiation enteropathy, and overall 5% to 15% of the patients who receive abdominal or pelvic irradiation will develop chronic radiation enteritis.

There are over 100,000 patients annually in the U.S. who receive abdominal or pelvic external beam radiation treatment for cancer, and these patients are at risk of developing acute and chronic radiation enteritis.



## LPM™ – Leuprolide

Our Lipid Polymer Micelle (“LPM™”) oral drug delivery system is a proprietary platform technology designed to allow for the oral administration of peptide drugs that are water-soluble but poorly permeable through the gastrointestinal tract. We have previously demonstrated in pre-clinical animal models that the LPM™ technology is adaptable to oral delivery of peptide drugs and that high systemic levels after intestinal absorption can be achieved with the peptide hormone drug leuprolide. The LPM™ system utilizes a lipid based delivery system that can incorporate the peptide of interest in a thermodynamically stable configuration called a “reverse micelle” that, through oral administration, can promote intestinal absorption. Reverse micelles are structures that form when certain classes of lipids come in contact with small amounts of water. This results in a drug delivery system in which a stable clear dispersion of the water soluble drug can be evenly dispersed within the lipid phase. LPM™ is thought to promote intestinal absorption due to the ability of the micelles to open up small channels through the epithelial layer of the intestines that allow only molecules of a certain dimension to pass through while excluding extremely large molecules such as bacteria and viruses. The reverse micelles also structurally prevent the rapid inactivation of peptides by enzymes in the upper gastrointestinal tract via a non-specific enzyme inhibition by surfactant(s) in the formulation.

In pre-clinical studies, the LPM™ delivery technology significantly enhanced the ability of leuprolide to pass through the intestinal epithelium in comparison to leuprolide alone. Leuprolide is a synthetic peptide agonist of gonadotropin releasing hormone, which is used in the treatment of prostate cancer in men and endometriosis in women. Leuprolide exhibits poor intestinal absorption from an aqueous solution with the oral bioavailability being less than 5%. Utilizing LPM™ in rats and dogs, the bioavailability of leuprolide averaged 30% compared to 2.2% for the control oral solution. Based on these promising pre-clinical data, we anticipate preparing for a Phase 1 study in humans to confirm these findings.

An oral version of leuprolide may provide a significant advantage over the currently marketed “depot” formulations. Leuprolide is one of the most widely used anti-cancer agents for advanced prostate cancer in men. Injectable forms of leuprolide marketed under trade names such as Lupron® and Eligard® had worldwide annual sales of more than \$1 billion in recent years. Injectable leuprolide is also widely used in non-cancer indications, such as endometriosis in women (a common condition in which cells normally found in the uterus become implanted in other areas of the body), uterine fibroids in women (noncancerous growths in the uterus) and central precocious puberty in children (a condition causing children to enter puberty too soon). Leuprolide is currently available only in injectable, injectable depot and subcutaneous implant routes of delivery which limits its use and utility.

## BioDefense Overview

### RiVax™

RiVax™ is our proprietary vaccine developed to protect against exposure to ricin toxin, and is the first and only ricin toxin vaccine to be clinically tested in humans. Ricin is a recombinant derivative of the ricin A chain and a potent glycoprotein toxin, derived from the beans of castor plants. It can be cheaply and easily produced, is stable over long periods of time, is toxic by several routes of exposure and thus has the potential to be used as a biological weapon against military and/or civilian targets. As a bioterrorism agent, ricin could be disseminated as an aerosol, by injection, or as a food supply contaminant. The potential use of ricin toxin as a biological weapon of mass destruction has been highlighted in a Federal Bureau of Investigations Bioterror report released in November 2007 entitled Terrorism 2002-2005, which states that "Ricin and the bacterial agent anthrax are emerging as the most prevalent agents involved in WMD investigations" ([http://www.fbi.gov/publications/terror/terrorism2002\\_2005.pdf](http://www.fbi.gov/publications/terror/terrorism2002_2005.pdf)). The Centers for Disease Control (“CDC”) has classified ricin as a Category B biological agent. Ricin works by first binding to glycoproteins found on the exterior of a cell, and then entering the cell and inhibiting protein synthesis leading to cell death. Once exposed to ricin toxin, there is no effective therapy available to reverse the course of the toxin. Currently,

there is no FDA approved vaccine to protect against the possibility of ricin toxin being used in a terrorist attack, or its use as a weapon on the battlefield, nor is there a known antidote for ricin toxin exposure.



The initial Phase 1 clinical trial of RiVax™ was conducted by Dr. Ellen Vitetta at the University of Texas Southwestern Medical Center (“UTSW”) at Dallas, Soligenix's academic partner. The trial demonstrated that RiVax™ is well tolerated and induces antibodies in humans that neutralize the ricin toxin. The functional activity of the antibodies was confirmed by animal challenge studies in mice which survived exposure to ricin toxin after being injected with serum samples from the volunteers. The outcome of the study was published in the Proceedings of the National Academy of Sciences. A second Phase 1 trial supported by a grant to UTSW is currently underway utilizing an adjuvanted formulation of RiVax™ and is expected to complete in the second half of 2010.

The National Institutes of Health (“NIH”) has previously awarded us two grants: one for \$6.4 million and one for \$5.2 million for a total of \$11.6 million for the development of RiVax™ covering process development, scale-up and current Good Manufacturing Practice (“cGMP”) manufacturing, and pre-clinical toxicology testing pursuant to the FDA’s “animal rule,” which has supported our research from 2004 to present.

On September 21, 2009, we announced that we were awarded a \$9.4 Million grant from the National Institute of Allergy and Infectious Diseases (“NIAID”), a division of the NIH. The grant will fund, over a five-year period, the development of formulation and manufacturing processes for vaccines, including RiVax™, that are stable at elevated temperatures. The grant will also fund the development of improved thermostable adjuvants expected to result in rapidly acting vaccines that can be given with fewer injections over shorter intervals. The development of heat-stable vaccines will take advantage of combining several novel formulation processes with well characterized adjuvants that have been evaluated in numerous vaccine field trials. The formulation and process technology funded by the grant will be applied to the further development of RiVax™, a subunit vaccine for prevention of ricin toxin lethality and morbidity. The grant will also address the development of manufacturing processes and animal model systems necessary for the pre-clinical characterization of vaccine formulations. Further, the grant will fund the concurrent development of at least one other protein subunit vaccine, which is currently expected to be an anthrax vaccine. This could lead to new subunit vaccines that would bypass current cold chain requirements for storage and distribution. Vaccines to be stored in the Strategic National Stockpile (“SNS”) and used under emergency situations for biodefense are expected to have long-term shelf life.

On April 29, 2008, we announced the initiation of a comprehensive program to evaluate the efficacy of RiVax™ in non-human primates. This study is taking place at the Tulane University Health Sciences Center and will provide data that will further aid in the interpretation of immunogenicity data obtained in the human vaccination trials.

#### SGX202 – Oral BDP for GI Radiation Injury

On September 12, 2007, we announced that our academic partner, the Fred Hutchinson Cancer Research Center (“FHCRC”), received a \$1 million grant from the NIH to conduct pre-clinical studies of oral beclomethasone dipropionate (oral BDP, also the active ingredient in orBec®) for the treatment of GI radiation injury. While we will not receive any monetary benefit from this grant, we will benefit if this work is successful and it will enhance the value of our oral BDP programs. The purpose of the studies funded by the grant, entitled “Improving Gastrointestinal Recovery after Radiation,” is to evaluate the ability of three promising clinical-grade drugs, including oral BDP, given alone or in combination, that are likely to significantly mitigate the damage to the gastrointestinal epithelium caused by exposure to high doses of radiation using a well-established dog model. The GI tract is highly sensitive to ionizing radiation and the destruction of epithelial tissue is one of the first effects of radiation exposure. The rapid loss of epithelial cells leads to inflammation and infection that are often the primary cause of death in acute radiation injury. This type of therapy, if successful, would benefit cancer patients undergoing radiation, chemotherapy, or victims of nuclear-terrorism. In most radiation scenarios, injury to the hematopoietic (blood) system and gastrointestinal tract are the main determinants of survival. The studies will compare overall survival and markers of intestinal cell regeneration when the drug regimens are added to supportive care intended to boost proliferation of blood cells. The principal investigator of the study is George E. Georges, M.D., Associate Member of the FHCRC. Our rights to the

use of SGX202 are through our license with George McDonald.

## The Drug Approval Process

Before marketing, each of our products must undergo an extensive regulatory approval process conducted by the FDA and applicable agencies in other countries. Testing, manufacturing, commercialization, advertising, promotion, export and marketing, among other things, of the proposed products are subject to extensive regulation by government authorities in the U.S. and other countries. All products must go through a series of tests, including advanced human clinical trials, which the FDA is allowed to suspend as it deems necessary to protect the safety of subjects.

Our products will require regulatory clearance by the FDA and by comparable agencies in other countries, prior to commercialization. The nature and extent of regulation differs with respect to different products. In order to test, produce and market certain therapeutic products in the U.S., mandatory procedures and safety standards, approval processes, manufacturing and marketing practices established by the FDA must be satisfied.

An Investigational New Drug (“IND”) application is required before human clinical testing in the U.S. of a new drug compound or biological product can commence. The IND application includes results of pre-clinical animal studies evaluating the safety and efficacy of the drug and a detailed description of the clinical investigations to be undertaken.

Clinical trials are normally done in three phases, although the phases may overlap. Phase 1 trials are smaller trials concerned primarily with metabolism and pharmacologic actions of the drug and with the safety of the product. Phase 2 trials are designed primarily to demonstrate effectiveness and safety in treating the disease or condition for which the product is indicated. These trials typically explore various doses and regimens. Phase 3 trials are expanded clinical trials intended to gather additional information on safety and effectiveness needed to clarify the product’s benefit-risk relationship and generate information for proper labeling of the drug, among other things. The FDA receives reports on the progress of each phase of clinical testing and may require the modification, suspension or termination of clinical trials if an unwarranted risk is presented to patients. When data is required from long-term use of a drug following its approval and initial marketing, the FDA can require Phase 4, or post-marketing, studies to be conducted.

With certain exceptions, once successful clinical testing is completed, the sponsor can submit an NDA for approval of a drug. The process of completing clinical trials for a new drug is likely to take a number of years and require the expenditure of substantial resources. Furthermore, the FDA or any foreign health authority may not grant an approval on a timely basis, if at all. The FDA may deny the approval of an NDA, in its sole discretion, if it determines that its regulatory criteria have not been satisfied or may require additional testing or information. Among the conditions for marketing approval is the requirement that the prospective manufacturer’s quality control and manufacturing procedures conform to good manufacturing practice regulations. In complying with standards contained in these regulations, manufacturers must continue to expend time, money and effort in the area of production, quality control and quality assurance to ensure full technical compliance. Manufacturing facilities, both foreign and domestic, also are subject to inspections by, or under the authority of, the FDA and by other federal, state, local or foreign agencies.

Even after initial FDA or foreign health authority approval has been obtained, further studies, including Phase 4 post-marketing studies, may be required to provide additional data on safety and will be required to gain approval for the marketing of a product as a treatment for clinical indications other than those for which the product was initially tested. Also, the FDA or foreign regulatory authority will require post-marketing reporting to monitor the side effects of the drug. Results of post-marketing programs may limit or expand the further marketing of the products. Further, if there are any modifications to the drug, including any change in indication, manufacturing process, labeling or manufacturing facility, an application seeking approval of such changes will likely be required to be submitted to the FDA or foreign regulatory authority.

In the U.S., the Federal Food, Drug, and Cosmetic Act, the Public Health Service Act, the Federal Trade Commission Act, and other federal and state statutes and regulations govern or influence the research, testing, manufacture, safety,

labeling, storage, record keeping, approval, advertising and promotion of drug, biological, medical device and food products. Noncompliance with applicable requirements can result in, among other things, fines, recall or seizure of products, refusal to permit products to be imported into the U.S., refusal of the government to approve product approval applications or to allow the Company to enter into government supply contracts, withdrawal of previously approved applications and criminal prosecution. The FDA may also assess civil penalties for violations of the Federal Food, Drug, and Cosmetic Act involving medical devices.

For the development of biodefense vaccines, such as RiVax™, the FDA has instituted policies that are expected to result in shorter pathways to market. This potentially includes approval for commercial use using the results of animal efficacy trials, rather than efficacy trials in humans. However, the Company will still have to establish that the vaccine and countermeasures it is developing are safe in humans at doses that are correlated with the beneficial effect in animals. Such clinical trials will also have to be completed in distinct populations that are subject to the countermeasures; for instance, the very young and the very old, and in pregnant women, if the countermeasure is to be licensed for civilian use. Other agencies will have an influence over the benefit-risk scenarios for deploying the countermeasures and in establishing the number of doses utilized in the Strategic National Stockpile. We may not be able to sufficiently demonstrate the animal correlation to the satisfaction of the FDA, as these correlates are difficult to establish and are often unclear. Invocation of the animal rule may raise issues of confidence in the model systems even if the models have been validated. For many of the biological threats, the animal models are not available and the Company may have to develop the animal models, a time-consuming research effort. There are few historical precedents, or recent precedents, for the development of new countermeasure for bioterrorism agents. Despite the Animal Rule, the FDA may require large clinical trials to establish safety and immunogenicity before licensure and it may require safety and immunogenicity trials in additional populations. Approval of biodefense products may be subject to post-marketing studies, and could be restricted in use in only certain populations.

#### Marketing Strategies

Pursuant to the collaboration and supply agreement with Sigma-Tau, we granted an exclusive license to Sigma-Tau to commercialize orBec® in the U.S., Canada and Mexico.

We are actively seeking a commercialization partner for orBec® and oral BDP outside of North America as well as for our LPMTM – Leuprolide program.

We have had and are having strategic discussions with a number of pharmaceutical companies regarding the partnering or sale of our biodefense vaccine products. We may market our biodefense vaccine products directly to government agencies. We believe that both military and civilian health authorities of the U.S. and other countries will increase their stockpiling of therapeutics and vaccines to treat and prevent diseases and conditions that could ensue following a bioterrorism attack.

#### Competition

Our competitors are pharmaceutical and biotechnology companies, most of whom have considerably greater financial, technical, and marketing resources than we currently have. Another source of competing technologies is universities and other research institutions, including the U.S. Army Medical Research Institute of Infectious Diseases, and we face competition from other companies to acquire rights to those technologies.

#### orBec® Competition

Competition is intense in the gastroenterology and transplant areas. Companies are attempting to develop technologies to treat GVHD by suppressing the immune system through various mechanisms. Some companies, including Sangstat, Abgenix, and PDL BioPharma, Inc., are developing monoclonal antibodies to treat GVHD. Novartis, Medimmune, and Ariad are developing both gene therapy products and small molecules to treat GVHD. All of these products are in various stages of development. For example, Novartis currently markets Cyclosporin, and Sangstat currently markets Thymoglobulin for transplant-related therapeutics. We face potential competition from Osiris Therapeutics if its product Prochymal for the treatment of GVHD is successful in reaching the market. Kiadis Pharma is also developing products for the treatment of GVHD. In addition, there are investigator-sponsored clinical trials exploring the use of approved drugs such as Enbrel®, which has been approved by the FDA for the treatment of rheumatoid arthritis, in

the treatment of GVHD. We believe that orBec®'s unique release characteristics, intended to deliver topically active therapy to both the upper and lower gastrointestinal systems, should make orBec® an attractive alternative to existing therapies for inflammatory diseases of the gastrointestinal tract.

Competition is also intense in the therapeutic area of inflammatory bowel disease. Several companies, including Centocor, Immunex, and Celgene, have products that are currently FDA approved. For example, Centocor, a subsidiary of Johnson & Johnson, markets the drug product Remicade™ for Crohn's disease. Other drugs used to treat inflammatory bowel disease include another oral locally active corticosteroid called budesonide, which is being marketed by AstraZeneca in Europe and Canada and by Prometheus Pharmaceuticals in the U.S. under the tradename of Entocort®. Entocort® is structurally similar to beclomethasone dipropionate, and the FDA-approved Entocort for Crohn's disease late in 2001. In addition, Salix Pharmaceuticals, Inc. markets an FDA-approved therapy for ulcerative colitis called Colazal®. Chiesi Pharmaceuticals ("Chiesi") markets a delayed-release oral formulation of beclomethasone dipropionate, the active ingredient of orBec®, called CLIPPERTM for ulcerative colitis and may seek marketing approval in Italy and other European countries. In the U.S., Eurand N.V. ("Eurand") has licenses from Chiesi to the same formulation as CLIPPERTM and is developing it for ulcerative colitis. Eurand has also received Orphan Drug Designation for the compound in pediatric ulcerative colitis patients.

Several companies have also established various colonic drug delivery systems to deliver therapeutic drugs to the colon for treatment of Crohn's disease. These companies include Ivax Corporation, Inkin Pharmaceutical Corporation, and Elan Pharmaceuticals, Inc. Other approaches to treat gastrointestinal disorders include antisense and gene therapy. Isis Pharmaceuticals, Inc. is in the process of developing antisense therapy to treat Crohn's disease.

#### BioDefense Vaccine Competition

We face competition in the area of biodefense vaccines from various public and private companies, universities and governmental agencies, such as the U.S. Army, some of whom may have their own proprietary technologies which may directly compete with our technologies. Acambis, Inc., Dynavax, Emergent Biosolutions (formerly Bioport Corporation), VaxGen, Inc., Chimerix, Inc., Human Genome Sciences, Inc., Coley Pharmaceuticals, Inc., Avanir Pharmaceuticals, Inc., Dynport Vaccine Company, LLC., Pharmathene, SIGA Pharmaceuticals and others have announced vaccine or countermeasure development programs for biodefense. Some of these companies have substantially greater human and financial resources than we do, and many of them have already received grants or government contracts to develop anti-toxins and vaccines against bioterrorism. For example, Avecia Biotechnology, Inc. has received NIH contracts to develop a next generation injectable anthrax vaccine. VaxGen received an approximately \$900 million procurement order from the U.S. government to produce and deliver 75 million doses of Anthrax vaccine. This contract was rescinded in January 2007 by the U.S. Department of Health and Human Services ("HHS") because of the inability of Vaxgen to enter into Phase 2 clinical trials according to contract timelines. Several companies have received development grants from the NIH for biodefense products. For example, Coley Pharmaceuticals, Inc. has received a \$6 million Department of Defense ("DOD") grant to develop vaccine enhancement technology. Dynport Vaccine Company, LLC, a prime contractor with the DOD, currently has a \$200 million contract to develop vaccines for the U.S. military, including a multivalent botulinum toxin vaccine. Although we have received significant grant funding to date for product development, we have not yet been obtained contract awards for government procurement of products.

#### Patents and Other Proprietary Rights

Our goal is to obtain, maintain and enforce patent protection for our products, formulations, processes, methods and other proprietary technologies, preserve our trade secrets, and operate without infringing on the proprietary rights of other parties, both in the U.S. and in other countries. Our policy is to actively seek to obtain, where appropriate, the broadest intellectual property protection possible for our product candidates, proprietary information and proprietary technology through a combination of contractual arrangements and patents, both in the U.S. and elsewhere in the world.





We also depend upon the skills, knowledge and experience of our scientific and technical personnel, as well as that of our advisors, consultants and other contractors, none of which is patentable. To help protect our proprietary knowledge and experience that is not patentable, and for inventions for which patents may be difficult to enforce, we rely on trade secret protection and confidentiality agreements to protect our interests. To this end, we require all employees, consultants, advisors and other contractors to enter into confidentiality agreements, which prohibit the disclosure of confidential information and, where applicable, require disclosure and assignment to us of the ideas, developments, discoveries and inventions important to our business.

We are the exclusive licensee of an issued U.S. patent that covers the use of orBec® for the prevention and treatment of GI GVHD. We also have “Orphan Drug” designations for orBec® in the U.S. and in Europe. Our Orphan Drug designations provide for seven years of post approval marketing exclusivity in the U.S. and ten years exclusivity in Europe for the use of orBec® in the treatment of GI GVHD. We have pending patent applications for this indication that, if granted, may extend our anticipated marketing exclusivity beyond the seven year post-approval exclusivity provided by the Orphan Drug Act of 1983.

#### orBec® License Agreement

In November 1998, we entered into an exclusive, worldwide, royalty bearing license agreement with George B. McDonald, M.D., including the right to grant sublicenses, for the rights to the intellectual property and know-how relating to orBec®. In addition, Dr. McDonald receives \$80,000 per annum as a consultant.

We also executed an exclusive license to patent applications for “Use of Anti-Inflammatories to Treat Irritable Bowel Syndrome” from the University of Texas Medical Branch-Galveston. Under the license agreements, we will be obligated to make performance-based milestone payments, as well as royalty payments on any net sales of oral BDP.

#### RiVax™ Intellectual Property

In January 2003, we executed a worldwide exclusive option to license patent applications with University of Texas Southwestern Medical Center (“UTSW”) for the nasal, pulmonary and oral uses of a non-toxic ricin vaccine. In June 2004, we entered into a license agreement with UTSW for the injectable rights to the ricin vaccine and, in October 2004, we negotiated the remaining oral rights to the ricin vaccine. Our license obligates us to pay \$50,000 in annual license fees. Through this license, we have rights to the issued patent number 7,175,848 entitled “Ricin A chain mutants lacking enzymatic activity as vaccines to protect against aerosolized ricin.” This patent includes methods of use and composition claims for RiVax™.

#### Research and Development Expenditure

We spent approximately \$4,500,000 and \$1,600,000 in the years ended December 31, 2009 and 2008, respectively, on research and development. The amounts we spent on research and development per product during the years ended December 31, 2009 and 2008 are set forth in “Management’s Discussion and Analysis of Financial Condition and Results of Operations” in this prospectus.

#### Employees

As of April 27, 2010, we had 14 full-time employees, 6 of whom are Ph.D.s.

#### Legal Proceedings

From time to time, we are a party to claims and legal proceedings arising in the ordinary course of business. Our management evaluates our exposure to these claims and proceedings individually and in the aggregate and allocates additional monies for potential losses on such litigation if it is possible to estimate the amount of loss and if the amount of the loss is probable.

MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION  
AND RESULTS OF OPERATION

The following discussion and analysis provides information that we believe is relevant to an assessment and understanding of our results of operation and financial condition. You should read this analysis in conjunction with our audited consolidated financial statements and related notes and our unaudited consolidated interim financial statements and their notes. This discussion and analysis contains statements of a forward-looking nature relating to future events or our future financial performance. These statements are only predictions, and actual events or results may differ materially. In evaluating such statements, you should carefully consider the various factors identified in this prospectus, which could cause actual results to differ materially from those expressed in, or implied by, any forward-looking statements, including those set forth in "Risk Factors" in this prospectus. See "Forward-Looking Statements."

#### Our Business Overview

Soligenix, Inc., formerly known as DOR BioPharma, Inc., was incorporated in Delaware in 1987. We are a late-stage research and development biopharmaceutical company focused on developing products to treat the life-threatening side effects of cancer treatment and serious gastrointestinal diseases where there remains an unmet medical need, as well as developing biodefense vaccines and therapeutics. We maintain two active business segments: BioTherapeutics and BioDefense. Our BioTherapeutics business segment intends to develop orBec® (oral beclomethasone dipropionate, or oral BDP) and other biotherapeutic products, including LPMTM Leuprolide. Our BioDefense business segment intends to convert its ricin toxin vaccine program and radiation injury program from early stage development to advanced development and manufacturing.

Our business activities can be outlined as follows:

- complete the pivotal Phase 3 confirmatory clinical trial for orBec® in the treatment of acute gastrointestinal Graft-versus-Host disease ("GI GVHD");
- identify a development and marketing partner for orBec® for territories outside of North America, as we have granted an exclusive license to Sigma-Tau Pharmaceuticals, Inc. ("Sigma-Tau") to commercialize orBec® in the U.S., Canada and Mexico;
  - conduct and complete a Phase 2 clinical trial of orBec® for the prevention of acute GVHD;
- evaluate and initiate additional clinical trials to explore the effectiveness of oral BDP in other therapeutic indications involving inflammatory conditions of the gastrointestinal tract such as radiation enteritis, radiation injury and Crohn's disease;
  - reinitiate development of our other biotherapeutics products, including LPMTM Leuprolide;
- continue to secure additional government funding for each of our BioDefense programs through grants, contracts and procurements;
- convert our biodefense vaccine programs from early stage development to advanced development and manufacturing with the potential to collaborate and/or partner with other companies in the biodefense area;
  - acquire or in-license new clinical-stage compounds for development; and
    - explore other business development and acquisition strategies.

## Critical Accounting Policies

Our discussion and analysis of our financial condition and results of operations are based upon our consolidated financial statements, which have been prepared in accordance with accounting principles generally accepted in the U.S. The preparation of these financial statements requires us to make estimates and judgments that affect the reported amounts of assets, liabilities and expenses, and related disclosure of contingent assets and liabilities. We evaluate these estimates and judgments on an on-going basis.

## Intangible Assets

One of the most significant estimates or judgments that we make is whether to capitalize or expense patent and license costs. We make this judgment based on whether the technology has alternative future uses, as defined in Financial Accounting Standards Board (“FASB”) Accounting Standards Codification (“ASC”) 730, Research and Development. Based on this consideration, we capitalized all applicable outside legal and filing costs incurred in the procurement and defense of patents.

We capitalize and amortize intangibles over their expected useful life – generally a period of 11 to 16 years. We capitalize legal costs associated with the protection and maintenance of our patents and rights for our current products in both the domestic and international markets. As a late stage research and development company with drug and vaccine products in an often lengthy clinical research process, we believe that patent rights are one of our most valuable assets. Patents and patent applications are a key currency of intellectual property, especially in the early stage of product development, as their purchase and maintenance gives us access to key product development rights from our academic and industrial partners. These rights can also be sold or sub-licensed as part of our strategy to partner our products at each stage of development. The legal costs incurred for these patents consist of work designed to protect, preserve, maintain and perhaps extend the lives of the patents. Therefore, our policy is to capitalize these costs and amortize them over the remaining useful life of the patents. We capitalize intangible assets’ alternative future use as referred to in FASB ASC 350, Intangibles – Goodwill and Other and FASB ASC 730, Research and Development.

These intangible assets are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount may not be recoverable or if the underlying program is no longer being pursued. If the sum of the expected undiscounted cash flows is less than the carrying value of the related asset or group of assets, a loss is recognized for the difference between the fair value and the carrying value of the related asset or group of assets.

## Research and Development Costs

Research and development costs are charged to expense when incurred. Research and development includes costs such as clinical trial expenses, contracted research and license agreement fees with no alternative future use, supplies and materials, salaries and employee benefits, equipment depreciation and allocation of various corporate costs. Purchased in-process research and development expense represents the value assigned or paid for acquired research and development for which there is no alternative future use as of the date of acquisition.

## Revenue Recognition

Our revenues are generated from NIH grants, the achievement of licensing milestones, and NPAP sales of orBec®. The revenue from NIH grants are based upon subcontractor costs and internal costs incurred that are specifically covered by the grant, plus a facilities and administrative rate that provides funding for overhead expenses. These revenues are recognized when expenses have been incurred by subcontractors or when we incur internal expenses that are related to the grant. Licensing milestone revenues are recorded when earned. Revenue from NPAP sales of orBec® are recorded when the product is shipped.



## Stock-Based Compensation

From time to time, we issue common stock to vendors, consultants, and employees as compensation for services performed. These shares are typically issued as restricted stock, unless issued to non-affiliates under the 2005 Equity Incentive Plan, where the stock may be issued as unrestricted. The restricted stock can only have the restrictive legend removed if the shares underlying the certificate are sold pursuant to an effective registration statement, which we must file and have approved by the SEC, if the shares underlying the certificate are sold pursuant to Rule 144, provided certain conditions are satisfied, or if the shares are sold pursuant to another exemption from the registration requirements of the Securities Act of 1933, as amended.

We determine stock-based compensation expense for options, warrants and shares of common stock granted to non-employees in accordance with FASB ASC 718, Stock Compensation, and FASB ASC 505-50, Equity-Based Payments to Non-Employees, and represents the fair value of the consideration received, or the fair value of the equity instruments issued, whichever may be more reliably measured. For options that vest over future periods, the fair value of options granted to non-employees is amortized as the options vest. The option's price is remeasured using the Black-Scholes model at the end of each quarterly reporting period. Stock-based compensation expense recognized during the period is based on the value of the portion of share-based payment awards that is ultimately expected to vest during the period.

## New Accounting Pronouncements

See Note 2, New Accounting Pronouncements, for a discussion of new accounting pronouncements.

## Material Changes in Results of Operations

### Year Ended December 31, 2009 Compared to 2008

For the year ended December 31, 2009, we had a net loss of \$6,034,453 as compared to a net loss of \$3,422,027 for the prior year, representing an increase of \$2,612,426 or 76%. This increase is primarily attributed to increased spending of \$2,971,052 in research and development for the year ended December 31, 2009 over 2008 related to the preparation for and conduct of the confirmatory Phase 3 clinical trial of orBec® for the treatment of acute GI GVHD. For the year ended December 31, 2009, there was also an increase in general and administrative expenses of \$339,532, which reflects the \$270,000 expense recorded in first quarter 2008 related to the Fusion Capital commitment shares, offset by staffing and other corporate cost increases this year.

For the year ended December 31, 2009, revenues and associated costs relate to NIH grants awarded in support of our ricin, botulinum and thermostable vaccines development and from the NPAP sales of orBec®. For the year ended December 31, 2009, we had revenues of \$2,816,037 as compared to \$2,310,265 for the prior year, representing an increase of \$505,772, or 22%. During 2009, we received a \$1 million clinical milestone payment from Sigma Tau, our collaborative partner on the orBec® Phase 3 study. The increase in revenues generated by this one-time milestone payment was offset by decreases in NIH grant revenues as we reached the end of our earlier NIH grants before the work under our newer grants had commenced. Included in those revenue figures for the year ended December 31, 2009, we also recorded revenues of \$56,000 from NPAP sales of orBec®, compared to \$40,618 recorded in the prior year.

We incurred costs related to that revenue in the year ended December 31, 2009 and 2008 of \$1,483,641 and \$1,886,431, respectively, representing a decrease of \$402,790, or 21%. This decrease follows from the decrease in NIH grant revenues discussed above.



Our gross profit for the year ended December 31, 2009 was \$1,332,396 as compared to \$423,834 for the prior year, representing an increase of \$908,562, or 214%. This increase is almost entirely explained by the \$1 million clinical milestone revenue recorded in 2009 for which there were no corresponding costs.

Research and development spending increased by \$2,971,052, or 191%, to \$4,523,375, for the year ended December 31, 2009 as compared to \$1,552,323 for the prior year. This increase is primarily related to the preparation for and conduct of the confirmatory Phase 3 clinical trial of orBec® for the treatment of acute GI GVHD.

General and administrative expenses increased \$339,532, or 17%, to \$2,281,251 for the year ended December 31, 2009, as compared to \$1,941,719 for the prior year reflecting staffing and other corporate cost increases this year.

Stock-based compensation expenses related to research and development increased \$28,666, or 16%, to \$210,834 for the year ended December 31, 2009, as compared to \$182,168 for the prior year. Stock-based compensation expenses related to general and administrative increased \$164,784, or 81%, to \$368,232 for the year ended December 31, 2009, as compared to \$203,448 for the prior year. These increases were related to stock options that were issued to new employees hired in 2009 and for options issued in the last quarter of 2008 that began vesting in 2009.

Net interest income for the year ended December 31, 2009 was \$19,242 as compared to \$33,797 for the prior year, representing a decrease of \$14,555, or 43%. This decrease was due to substantially lower interest rates earned on cash balances in 2009 versus the prior year.

#### Business Segments

We had two active business segments for the year ended December 31, 2009 and December 31, 2008: BioDefense and BioTherapeutics.

Revenues for the BioDefense business segment for the year ended December 31, 2009 were \$1,670,536 as compared to \$2,269,647 for the year ended December 31, 2008, representing a decrease of \$599,111, or 26%. This decrease is primarily attributed to a reduction in NIH grant revenues as we reached the end of our earlier NIH grants focusing on RiVax and botulinum vaccines before the work under our new thermostable vaccine technology grant had commenced. Revenues for the BioTherapeutics business segment for the year ended December 31, 2009 were \$1,145,501 as compared to \$40,618 for the year ended December 31, 2008, representing an increase of \$1,104,883. This substantial increase is a result of the receipt of a \$1 million clinical milestone payment from Sigma Tau in 2009 upon the initiation of enrollment in the confirmatory Phase 3 clinical trial of orBec®.

Loss from operations for the BioDefense business segment for the year ended December 31, 2009 was \$389,157 as compared to \$132,272 for the year ended December 31, 2008, representing an increase of \$256,885, or 194%. This increase is primarily attributed to a reduction in NIH grant revenues as we reached the end of our earlier NIH grants focusing on RiVax and botulinum vaccines before the work under our new thermostable vaccine technology grant had commenced. Loss from operations for the BioTherapeutics business segment for the year ended December 31, 2009 was \$3,444,838 as compared to \$1,556,429 for the year ended December 31, 2008, representing an increase of \$1,888,409, or 121%. This increase is primarily attributed the preparation for and conduct of the confirmatory Phase 3 clinical trial of orBec®, offset to some degree by the receipt of a \$1 million clinical milestone payment from Sigma Tau in 2009.

Amortization and depreciation expense for the BioDefense business segment for the year ended December 31, 2009 was \$91,420 as compared to \$85,354 for the year ended December 31, 2008, representing an increase of \$6,066, or 7%, primarily related to newly capitalized patent support costs in 2009. Amortization and depreciation expense for the BioTherapeutics business segment for the year ended December 31, 2009 was \$77,496 as compared to \$58,829 for the



year ended December 31, 2008, representing an increase of \$18,667, or 32%, primarily related to newly capitalized patent support costs in 2009.

## Financial Condition and Liquidity

### Cash and Working Capital

As of December 31, 2009, we had cash and cash equivalents of approximately \$7,692,000 as compared to \$1,475,000 as of December 31, 2008, representing an increase of \$6,217,000, or 421%, over the prior year. As of December 31, 2009, we had working capital of approximately \$6,690,000 as compared to working capital of \$537,000 as of December 31, 2008, representing an increase of \$6,153,000. The increase was the result of the \$10.9 million in proceeds from the sale of our common stock and warrants to accredited investors and a collaborative partner, less the cash used in operating and investing activities over the period. We have used equity instruments in the past to provide a portion of the compensation due to our employees, vendors and collaborative partners, and expect to continue to do so in the foreseeable future. For the year ended December 31, 2009, our cash used in operating activities was approximately \$4,603,000, compared to \$2,788,000 for the prior year, representing an increase of \$1,815,000, or 65%. This increase primarily relates to the preparation for and conduct of our confirmatory Phase 3 clinical trial of orBec® for the treatment of acute GI GVHD.

Based on our current rate of cash outflows, cash on hand, the timely collection of milestone payments under collaboration agreements, proceeds from our grant-funded programs, revenues collected under the NPAP's, and potential proceeds from the Fusion Capital transaction, we believe that our current cash will be sufficient to meet the anticipated cash needs for working capital and capital expenditures beyond the first quarter of 2011.

Our plans with respect to our liquidity management include the following:

- We have \$10 million in active grant funding still available to support our research programs in 2010 and beyond. Additionally, we have submitted additional grant applications for further support of these programs and others with various funding agencies, and have received encouraging feedback to date on the likelihood of funding.
- We have continued to use equity instruments to provide a portion of the compensation due to vendors and collaboration partners and expect to continue to do so for the foreseeable future.
- We have approximately \$7.7 million in available capacity under our Fusion Capital equity facility. Although we have historically drawn amounts in modest amounts under this agreement, we could draw more within certain contractual parameters.
- We may seek additional capital in the private and/or public equity markets to continue our operations, respond to competitive pressures, develop new products and services, and to support new strategic partnerships. We are currently evaluating additional equity financing opportunities and may execute them when appropriate. However, there can be no assurances that we can consummate such a transaction, or consummate a transaction at favorable pricing.

### Expenditures

Under our budget and based upon our existing product development agreements and license agreements pursuant to letters of intent and option agreements, we expect our research and development expenditures for the next 12 months to be approximately \$7,500,000. We anticipate grant revenues in the next year to offset research and development expenses for the development of our thermostable vaccine technology and the development of SGX201 in radiation enteritis in the amount of approximately \$1,600,000, with \$700,000 of that total amount contributing towards our overhead expenses.



The table below details our costs by program for each of the two years ended December 31, 2009:

|                                 | 2009        | 2008        |
|---------------------------------|-------------|-------------|
| Research & Development Expenses |             |             |
| orBec®                          | \$3,211,682 | \$921,562   |
| RiVax™ & Thermostable Vaccines  | 1,264,218   | 312,486     |
| BT-VACC™                        | 31,167      | 201,529     |
| Oraprine™                       | 6,000       | 4,500       |
| LPM™ Leuprolide                 | 10,308      | 112,246     |
| Total                           | \$4,523,375 | \$1,552,323 |
| Reimbursed under NIH Grants     |             |             |
| orBec®                          | \$162,106   | \$122,551   |
| RiVax™ & Thermostable Vaccines  | 1,321,535   | 1,681,274   |
| BT-VACC™                        | -           | 82,606      |
| Total                           | \$1,483,641 | \$1,886,431 |
| Grand Total                     | \$6,007,016 | \$3,438,754 |

#### Effects of Inflation and Foreign Currency Fluctuations

We do not believe that inflation or foreign currency fluctuations significantly affected our financial position and results of operations as of and for the years ended December 31, 2009 or 2008.

#### Contractual Obligations

We have a contractual obligation of approximately \$3.3 million as of December 31, 2009 in connection with a collaboration agreement with Numoda for the execution of our confirmatory Phase 3 clinical trial of orBec® that began in September 2009 and is expected to complete in first half of 2011.

We have several licensing agreements with consultants and universities, which upon clinical or commercialization success may require the payment of milestones and/or royalties if and when achieved; however, there can be no assurance that clinical or commercialization success will occur.

On April 1, 2009, we entered into a sublease agreement through March 31, 2012 for office space in Princeton, New Jersey. We were required to provide 4 months of rent as a security deposit. The rent for the first 18 months will be approximately \$7,500 per month, or approximately \$17.00 per square foot on an annualized basis. This rent increases to approximately \$7,650 per month, or approximately \$17.50 per square foot on an annualized basis, for the remaining 18 months.

On April 24, 2008, we signed a three-year lease for a copier.

Employees with employment contracts have severance agreements that will provide separation benefits from the Company if they are involuntarily separated from employment.

As a result of the above agreements, we have future contractual obligations over the next five years as follows:

| Year | Research and Development | Property and | Total |
|------|--------------------------|--------------|-------|
|------|--------------------------|--------------|-------|

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|       |              | Other<br>Leases |             |
|-------|--------------|-----------------|-------------|
| 2010  | \$ 3,013,640 | \$95,398        | \$3,109,038 |
| 2011  | 631,440      | 92,699          | 724,139     |
| 2012  | 155,000      | 22,950          | 177,950     |
| 2013  | 75,000       | -               | 75,000      |
| 2014  | 75,000       | -               | 75,000      |
| Total | \$ 3,950,080 | \$211,047       | \$4,161,127 |

## DIRECTORS AND EXECUTIVE OFFICERS

The following table contains information regarding the current members of the Board of Directors and executive officers. The ages of individuals are provided as of April 27, 2010:

| Name                              | Age | Position   |
|-----------------------------------|-----|--|
| Christopher J. Schaber, Ph.D.     | 43  | Chairman of the Board, Chief Executive Officer and President         |
| Cyrille F. Buhrman                | 37  | Director   |
| Gregg A. Lapointe, C.P.A., M.B.A. | 51  | Director   |
| Robert J. Rubin, M.D.             | 64  | Director   |
| Evan Myrianthopoulos              | 45  | Chief Financial Officer, Senior Vice President and Director          |
| Brian L. Hamilton, M.D., Ph.D.    | 63  | Chief Medical Officer and Senior Vice President                      |
| Robert N. Brey, Ph.D.             | 59  | Chief Scientific Officer and Senior Vice President                   |
| Christopher P. Schnittker, C.P.A. | 41  | Vice President of Administration, Controller and Corporate Secretary |

Christopher J. Schaber, Ph.D. has been our President and Chief Executive Officer and a director since August 2006. He was appointed interim Chairman of the Board on October 8, 2009. Dr. Schaber has served on the boards of directors of both the Alliance for BioSecurity and BioNJ since May 2008 and January 2009, respectively, and represents Soligenix on the corporate councils of both the National Organization for Rare Diseases (“NORD”) and the American Society for Blood and Marrow Transplantation (“ASBMT”) since October 2009 and July 2009, respectively. Prior to joining Soligenix, Dr. Schaber served from 1998 to 2006 as Executive Vice President and Chief Operating Officer of Discovery Laboratories, Inc., where he was responsible for overall pipeline development and key areas of commercial operations, including regulatory affairs, quality control and assurance, manufacturing and distribution, pre-clinical and clinical research, and medical affairs, as well as coordination of commercial launch preparation activities. During his tenure at Discovery Laboratories, Inc., Dr. Schaber played a significant role in raising in excess of \$150 million through both public offerings and private placements. From 1996 to 1998, Dr. Schaber was a co-founder of Acute Therapeutics, Inc., and served as its Vice President of Regulatory Compliance and Drug Development. From 1994 to 1996, Dr. Schaber was employed by Ohmeda PPD, Inc., as Worldwide Director of Regulatory Affairs and Operations. From 1989 to 1994, Dr. Schaber held a variety of regulatory, development and operations positions with The Liposome Company, Inc., and Elkins-Sinn Inc., a division of Wyeth-Ayerst Laboratories. Dr. Schaber received his B.A. degree from Western Maryland College, his M.S. degree in Pharmaceutics from Temple University School of Pharmacy and his Ph.D. degree in Pharmaceutical Sciences from the Union Graduate School. Dr. Schaber was selected to serve as a member of our Board of Directors because of his extensive experience in drug development and pharmaceutical operations, including his experience as executive senior officer with our Company and Discovery Laboratories, Inc., and as a member of the boards of directors of the Alliance for BioSecurity and BioNJ; because of his proven ability to raise funds and provide access to capital; and because of his advanced degrees in science and business.

Cyrille F. Buhrman has been a director since June 2007. Mr. Buhrman is Chairman of the Pacific Healthcare Group of Companies, a full-service regulatory affairs, commercialization and distribution company, focusing on specialty pharmaceuticals, medical supplies, medical technology, OTC and consumer health products across the Asian region. In addition to serving on the Board of Soligenix, Mr. Buhrman has served on the boards of directors of Canyon Pharmaceuticals, a privately-held company specialty pharmaceutical company based in Basel, Switzerland

and serves on the boards of directors of several other privately-held pharmaceutical and medical technology companies in the Asia Pacific region. Mr. Buhrman also heads up his own private investment fund that specializes in the biotechnology and pharmaceutical industries. Mr. Buhrman is also one of our largest shareholders. Mr. Buhrman was selected to serve as a member of our Board of Directors because of his experience as a CEO of a pharmaceutical company, as a member of the boards of several pharmaceutical, and medical device companies and as an investor in the biotechnology and pharmaceutical industries.

Gregg Lapointe, C.P.A., M.B.A. has been a director since March 10, 2009. Mr. Lapointe has served on the Board of Directors of the Pharmaceuticals Research and Manufacturers of America (“PhRMA”) and has been a member of the Corporate Council of NORD for several years. He has served in varying roles for Sigma-Tau, a private biopharmaceutical company, since September 2001, including Chief Operating Officer from November 2003 to April 2008 and Chief Executive Officer since April 2008. From May, 1996 to August, 2001, he served as Vice President of Operations and Vice President, Controller of AstenJohnson, Inc. (formerly JWI Inc.). Prior to that, Mr. Lapointe spent several years in the Canadian medical products industry in both distribution and manufacturing. Mr. Lapointe began his career at Price Waterhouse. Mr. Lapointe received his B.A. degree in Commerce from Concordia University in Montreal, Canada, a graduate diploma in Accountancy from McGill University and his M.B.A. degree from Duke University. He is a C.P.A. in the state of Illinois and a Chartered Accountant in Ontario, Canada. Mr. Lapointe was selected to serve as a member of our Board of Directors because of his significant experience in the areas of global strategic planning and implementation, business development, corporate finance, and acquisitions, and his experience as an executive officer and board member in the pharmaceutical medical products industries.

Robert J. Rubin, M.D. has been a director since October 8, 2009. Dr. Rubin has also been a clinical professor of medicine at Georgetown University since 1995. From 1987 to 2001, he was president of the Lewin Group (purchased by Quintiles Transnational Corp. in 1996), an international health policy and management consulting firm. From 1994 to 1996, Dr. Rubin served as Medical Director of ValueRx, a pharmaceutical benefits company. From 1992 to 1996, Dr. Rubin served as President of Lewin-VHI, a health care consulting company. From 1987 to 1992, he served as President of Lewin-ICF, a health care consulting company. From 1984 to 1987, Dr. Rubin served as a principal for ICF, Inc., a health care consulting company. From 1981 to 1984, Dr. Rubin served as the Assistant Secretary for Planning and Evaluation at the Department of Health and Human Services and as the Assistant Surgeon General in the United States Public Health Service. Dr. Rubin is a board certified nephrologist and internist. Dr. Rubin received an undergraduate degree in Political Science from Williams College and his medical degree from Cornell University Medical College. Dr. Rubin was selected to serve as a member of our Board of Directors because of his vast experience in the health care industry, including his experience as a nephrologist, internist, clinical professor of medicine and Assistant Surgeon General, and his business experience in the pharmaceutical industry.

Evan Myriantopoulos has been a director since 2002 and is currently our Chief Financial Officer and Senior Vice President, after joining us in November of 2004 as President and Acting Chief Executive Officer. From November 2001 to November 2004, he was President and founder of CVL Advisors Group Inc., a financial consulting firm specializing in the biotechnology sector. Prior to founding CVL Advisors Group, Inc., Mr. Myriantopoulos was a co-founder of Discovery Laboratories, Inc. During his tenure at Discovery Laboratories, Inc. from June 1996 to November 2001, Mr. Myriantopoulos held the positions of Chief Financial Officer and Vice President of Finance, where he was responsible for raising approximately \$55 million in four private placements. He also helped negotiate and manage Discovery Laboratories, Inc.’s mergers with Ansan Pharmaceuticals and Acute Therapeutics, Inc. Prior to co-founding Discovery Laboratories, Inc., Mr. Myriantopoulos was a Technology Associate at Paramount Capital Investments, L.L.C., a New York City based biotechnology venture capital and investment banking firm from October 1995 to December 1997. Prior to joining Paramount Capital Investments, LLC, Mr. Myriantopoulos was a managing partner at a hedge fund and also held senior positions in the treasury department at the National Australia Bank where he was employed as a spot and derivatives currency trader. Mr. Myriantopoulos holds a B.S. degree in Economics and Psychology from Emory University. Mr. Myriantopoulos was selected to serve as a member of our Board of Directors because of his experience as principal financial officer and principal executive officer of our Company and Discovery Laboratories and his experience in raising capital.



Brian L. Hamilton, M.D., Ph.D. has been Chief Medical Officer and Senior Vice President since March 11, 2009. His academic career at the University of Washington and the University of Miami focused on the use of bone marrow transplantation to treat children with congenital immune deficiency, with research in the immunobiology of GVHD. In the pharmaceutical industry, he has worked with both large pharmaceutical companies (Astra, USA and Wyeth) and several biotechnology companies. From December 2001 to June 2004, he was Senior Director of Clinical Research with Wyeth Research. From June 2004 to March 2006, he was Vice President for Clinical and Regulatory Affairs at Merrimack Pharmaceutical. He was Chief Medical Officer with BioVex from September 2006 to March 2007. He was a consultant in clinical development as Medical Director with Biopharm Solutions, Inc. from March 2007 to October 2008. From October 2008 to March 2009, he was Acting Vice President of Medical Affairs with Ziopharm Oncology. He has expertise in clinical development and regulatory affairs with small molecules, biologics, vaccines, and genetically modified oncolytic viruses in oncology, hematology, rheumatology, and immunology. At Astra, USA, he had a significant role in the clinical development and registration of both Pulmicort Turbuhaler for the treatment of patients with asthma and Rhinocort Aqua for the treatment of patients with allergic rhinitis. Dr. Hamilton received his M.D. and Ph.D. degrees from the University of Washington, with post-graduate training in Pediatrics, Allergy, Immunology, and Oncology.

Robert N. Brey, Ph.D. has been with the Company since January 1996, and is currently our Chief Scientific Officer and Senior Vice President. He has also held the positions of Vice President Vaccine Development and Vice President of Research and Development. He also has held Scientific, Management and Project Management positions in the Lederle-Praxis division of American Cyanamid, now a division of Wyeth, in which he participated in the successful development of a vaccine for Haemophilus influenzae meningitis, and a vaccine for pneumonia. While at Lederle-Praxis, Dr. Brey was Manager of Molecular Biology Research for vaccines and Project Manager for development of oral vaccines from 1985 through 1993. From 1993 through 1994, Dr. Brey served as Director of Research and Development of Vaxcel, in which he was responsible for developing adjuvant technology and formulations for improved vaccines. From 1994 through 1996, Dr. Brey established an independent consulting group, Vaccine Design Group, to identify and develop novel vaccine technologies and platforms. Before entering into drug and vaccine delivery, he held senior scientific positions at Genex Corporation from 1982 through 1986. Dr. Brey received a B.S. degree in Biology from Trinity College in Hartford, Connecticut, his Ph.D. degree in Microbiology from the University of Virginia and performed postdoctoral studies at MIT with Nobel Laureate Salvador Luria.

Christopher P. Schnittker, C.P.A. has been our Vice President of Administration, Controller and Corporate Secretary since July 2009. He has more than 19 years of financial management experience primarily in publicly-held life science companies. From June 2000 until joining Soligenix, Mr. Schnittker was a Vice President and Chief Financial Officer of several publicly-held biotechnology and specialty pharmaceutical companies, including: VioQuest Pharmaceuticals Inc. (from July 2008 until joining Soligenix); Micromet, Inc. (from October 2006 through December 2007); Cytogen Corporation (from September 2003 through May 2006); and Genaera Corporation (from June 2000 through August 2003). From December 1997 through June 2000, he was Director of Finance and Controller of GSI Commerce, an e-commerce technology company. From June 1995 through December 1997, he served in various financial reporting and internal control manager roles with Rhône-Poulenc Rorer Pharmaceuticals Inc. (now part of the Sanofi Aventis Group). From September 1990 through June 1995, he was a member of the Audit and Assurance Services division at Price Waterhouse LLP (now PricewaterhouseCoopers LLP), working largely with the firm's pharmaceutical and technology clients. Mr. Schnittker received his Bachelor's degree in Economics and Business, with a concentration in Accounting, from Lafayette College in 1990 and is a currently-licensed Certified Public Accountant in the State of New Jersey.

## EXECUTIVE COMPENSATION

## Summary Compensation

The following table contains information concerning the compensation paid during each of the two years ended December 31, 2009 to our Chief Executive Officer and each of the two other most highly compensated executive officers during 2009 (collectively, the “Named Executive Officers”).

## Summary Compensation

| Name                                | Position        | Year | Salary     | Bonus      | Option Awards | All Other Compensation | Total      |
|-------------------------------------|-----------------|------|------------|------------|---------------|------------------------|------------|
| Christopher J. Schaber <sup>1</sup> | CEO & President | 2009 | \$ 337,709 | \$ 120,000 | -             | \$ 24,737              | \$ 482,446 |
|                                     |                 | 2008 | \$ 300,000 | \$ 100,000 | \$ 127,120    | \$ 24,844              | \$ 551,964 |
| Evan Myriantopoulos <sup>2</sup>    | CFO & Senior VP | 2009 | \$ 202,605 | \$ 70,000  | -             | \$ 24,811              | \$ 297,416 |
|                                     |                 | 2008 | \$ 200,000 | \$ 50,000  | \$ 54,480     | \$ 23,474              | \$ 327,954 |
| Brian L. Hamilton <sup>3</sup>      | CMO & Senior VP | 2009 | \$ 206,400 | \$ 60,000  | \$ 87,400     | \$ 26,843              | \$ 380,643 |

- 1 Dr. Schaber deferred payment of his 2008 annual bonus of \$100,000 until February 28, 2009 and his 2009 annual bonus of \$120,000 until January 15, 2010. Option award figures include the value of common stock option awards at grant date as calculated under FASB ASC 718. Other compensation for 2008 and 2009 represent insurance costs.
- 2 Mr. Myriantopoulos deferred payment of his 2008 annual bonus of \$50,000 until February 28, 2009 and his 2009 annual bonus of \$70,000 until January 15, 2010. Option award figures include the value of common stock option awards at grant date as calculated under FASB ASC 718. Other compensation for 2008 and 2009 represent insurance costs.
- 3 Dr. Hamilton joined the Company in April 2009. He deferred his 2009 annual bonus of \$60,000 until January 15, 2010. Option award figures include the value of common stock option awards at grant date as calculated under FASB ASC 718. Other compensation for 2009 represents insurance costs.

## Employment and Severance Agreements

In August 2006, we entered into a three-year employment agreement with Christopher J. Schaber, Ph.D. Pursuant to this employment agreement we agreed to pay Dr. Schaber a base salary of \$300,000 per year and a minimum annual bonus of \$100,000. This employment agreement was renewed in December 27, 2007 for a term of three years. We agreed to issue him options to purchase 2,500,000 shares of our common stock, with one third immediately vesting and the remainder vesting over three years. Upon termination without “Just Cause” as defined by this agreement, we would pay Dr. Schaber nine months of severance, as well as any accrued bonuses, accrued vacation, and we would provide health insurance and life insurance benefits for Dr. Schaber and his dependants. No unvested options shall vest beyond the termination date. Dr. Schaber’s monetary compensation (base salary of \$300,000 and bonus of \$100,000) remained unchanged from 2006 with the 2007 renewal. He will be paid nine months of severance upon termination of employment. Upon a change in control of the Company due to merger or acquisition, all of Dr. Schaber’s options shall become fully vested, and be exercisable for a period of five years after such change in control (unless they would have expired sooner pursuant to their terms). In the event of his death during term of the agreement, all of his unvested options shall immediately vest and remain exercisable for the remainder of their term

and become the property of Dr. Schaber's immediate family.

In December 2004, we entered into a three-year employment agreement with Evan Myriantopoulos. Pursuant to this employment agreement we agreed to pay Mr. Myriantopoulos a base salary of \$185,000 per year. After one year of service Mr. Myriantopoulos would be entitled to a minimum annual bonus of \$50,000. This employment agreement was renewed in December 27, 2007 for a term of three years. We agreed to issue him options to purchase 500,000 shares of our common stock, with the options vesting over three years. Upon termination without “Just Cause” as defined by this agreement, we would pay Mr. Myriantopoulos six months of severance subject to set off, as well as any unpaid bonuses and accrued vacation would become payable. No unvested options shall vest beyond the termination date. Mr. Myriantopoulos also received 150,000 options, vested immediately when he was hired in November 2004, as President and Acting Chief Executive Officer. Mr. Myriantopoulos’ monetary compensation (base salary of \$200,000 and bonus of \$50,000) remained unchanged from 2006 with the 2007 renewal. He will be paid six months of severance upon termination of employment. Upon a change in control of the Company due to merger or acquisition, all of Mr. Myriantopoulos’ options shall become fully vested, and be exercisable for a period of three years after such change in control (unless they would have expired sooner pursuant to their terms). In the event of his death during term of contract, all of his unvested options shall immediately vest and remain exercisable for the remainder of their term and become property of Mr. Myriantopoulos’ immediate family.

In February 2007, our Board of Directors authorized the issuance of the following number of shares to each of Dr. Schaber, Mr. Myriantopoulos and Dr. Brey immediately prior to the completion of a transaction, or series or a combination of related transactions negotiated by our Board of Directors whereby, directly or indirectly, a majority of our capital stock or a majority of our assets are transferred from the Company and/or our stockholders to a third party: 1,000,000 common shares to Dr. Schaber and 750,000 common shares to Mr. Myriantopoulos. The amended agreements include our obligation to issue such shares to the executives if such event occurs.

In March 2009, we entered into a two-year employment agreement with Brian L. Hamilton, M.D., Ph.D. Pursuant to this employment agreement we agreed to pay Dr. Hamilton a base salary of \$270,000 per year and a minimum annual bonus of \$70,000. We agreed to issue him options to purchase 1,000,000 shares of our common stock, with one quarter immediately vesting and the remainder vesting over three years. Upon termination without “Just Cause” as defined by this agreement, we would pay Dr. Hamilton six months of severance, as well as any accrued bonuses, accrued vacation, and we would provide health insurance and life insurance benefits for Dr. Hamilton and his dependants. No unvested options shall vest beyond the termination date. Upon a change in control of the Company due to merger or acquisition, all of Dr. Hamilton’s options shall become fully vested, and be exercisable for a period of three years after such change in control (unless they would have expired sooner pursuant to their terms). In the event of his death during term of the agreement, all of his unvested options shall immediately vest and remain exercisable for the remainder of their term and become the property of Dr. Hamilton’s immediate family.

On March 27, 2009, the Compensation Committee approved the increase in salaries for Dr. Schaber to \$350,000 and Mr. Myriantopoulos to \$230,000. On December 1, 2009, the Compensation Committee approved the increase in salaries for Dr. Hamilton to \$280,000, effective January 1, 2010. Dr. Schaber’s and Mr. Myriantopoulos’ salaries were not changed at this time.

## Outstanding Equity Awards at Fiscal Year-End

The following table contains information concerning unexercised options, stock that has not vested, and equity incentive plan awards for the Named Executive Officers outstanding at December 31, 2009. We have never issued Stock Appreciation Rights.

## Outstanding Equity Awards at Fiscal Year-End

| Name                   | Number of Securities Underlying Unexercised Options (#) |               | Equity Incentive Plan Awards: Number of Securities Underlying Unexercised | Option Exercise | Option Expiration Date |
|------------------------|---|---------------|---|-----------------|------------------------|
|                        | Exercisable   | Unexercisable | Unearned Options (#)  | Price (\$)      |                        |
| Christopher J. Schaber | 2,500,000   | -             | -   | \$ 0.27         | 8/28/2016              |
|                        | 731,250   | 168,750       | 168,750   | \$ 0.47         | 8/29/2017              |
|                        | 1,400,000   | 1,400,000     | 1,400,000   | \$ 0.06         | 12/17/2018             |
| Evan Myriantopoulos    | 150,000   | -             | -   | \$ 0.35         | 11/14/2012             |
|                        | 50,000  | -             | -   | \$ 0.90         | 9/15/2013              |
|                        | 50,000  | -             | -   | \$ 0.58         | 6/11/2014              |
|                        | 150,000   | -             | -   | \$ 0.47         | 11/10/2014             |
|                        | 500,000   | -             | -   | \$ 0.49         | 12/13/2014             |
|                        | 400,000   | -             | -   | \$ 0.35         | 5/10/2016              |
|                        | 446,875   | 103,125       | 103,125   | \$ 0.47         | 8/29/2017              |
| 600,000                | 600,000   | 600,000       | \$ 0.06   | 12/17/2018      |                        |
| Brian L. Hamilton      | 437,500   | 562,500       | 562,500   | \$ 0.11         | 3/10/2019              |

## Compensation of Directors

The following table contains information concerning the compensation of the non-employee directors during the fiscal year ended December 31, 2009.

## Compensation of Directors

| Name               | Fees Earned Paid     |                            |           |
|--------------------|----------------------|----------------------------|-----------|
|                    | in Cash <sup>1</sup> | Option Awards <sup>2</sup> | Total     |
| Gregg A. Lapointe  | \$ 16,000            | \$ 30,413                  | \$ 46,413 |
| James S. Kuo       | \$ 12,000            | \$ 27,950                  | \$ 39,950 |
| Cyrille F. Buhrman | \$ 13,000            | \$ 27,950                  | \$ 40,950 |
| Robert J. Rubin    | \$ 3,000             | \$ 75,720                  | \$ 78,720 |

- 1 Directors who are compensated as full-time employees receive no additional compensation for service on our Board of Directors. Each independent director who is not a full-time employee is paid \$2,000 for each board or committee meeting attended (\$1,000 if such meeting was attended telephonically).
- 2 We maintain a stock option grant program pursuant to the nonqualified stock option plan, whereby members of our Board of Directors or its committees who are not full-time employees receive an initial grant of fully vested

options to purchase 300,000 shares of common stock, and subsequent prorated annual grants of fully vested options to purchase 150,000 shares of common stock after re-election to our Board of Directors. Option award figures include the value of common stock option awards at grant date as calculated under FASB ASC 718.

For 2010, non-employee directors will be paid \$20,000 annually, on a prorated basis, for their service on our Board of Directors, the chairman of our Audit Committee will be paid \$7,500 annually, on a prorated basis, and the chairman of our Compensation and Nominating Committees will be paid \$5,000 annually, on a prorated basis. This compensation will be paid quarterly, in arrears.

## SECURITY OWNERSHIP OF PRINCIPAL STOCKHOLDERS AND MANAGEMENT

The table below provides information regarding the beneficial ownership of the common stock as of April 27, 2010 of (1) each person or entity who owns beneficially 5% or more of the shares of our outstanding common stock, (2) each of our directors, (3) each of the Named Executive Officers, and (4) our directors and officers as a group. Except as otherwise indicated, and subject to applicable community property laws, we believe the persons named in the table have sole voting and investment power with respect to all shares of common stock held by them.

## Beneficial Ownership

| Name of Beneficial Owner                                    | Shares of Common Stock Beneficially Owned** | Percent of Class |   |
|---|---|------------------|---|
| Sigma-Tau Pharmaceuticals, Inc.1                            | 47,595,521                                  | 25.19            | % |
| Biotex Pharma Investments, LLC2                             | 37,395,000                                  | 18.07            | % |
| BAM Opportunity Fund, L.P.3                                 | 14,509,828                                  | 7.60             | % |
| Cyrille F. Buhrman4   | 5,375,020                                   | 2.87             | % |
| Christopher J. Schaber5                                     | 5,430,093                                   | 2.83             | % |
| Evan Myriantopoulos 6                                       | 2,715,405                                   | 1.43             | % |
| Robert N. Brey7   | 1,237,500                                   | *                |   |
| Christopher P. Schnittker8                                  | 328,125                                     | *                |   |
| Robert J. Rubin9  | 300,000                                     | *                |   |
| Gregg A. Lapointe10   | 337,500                                     | *                |   |
| Brian L. Hamilton11   | 562,500                                     | *                |   |
| All directors and executive officers as a group (8 persons) | 16,286,143                                  | 8.24             | % |

1 Includes 45,619,237 shares of common stock and warrants to purchase 1,976,284 shares of common stock exercisable within 60 days of April 27, 2010. The amount does not include 1,546,870 shares of common stock held by Paolo Cavazza, one of the principal owners of Sigma-Tau. The address of Sigma-Tau Pharmaceuticals, Inc. is c/o Sigma-Tau Pharmaceuticals, Inc., 9841 Washingtonian Boulevard, Suite 500, Gaithersburg, Maryland 20878.

2 Includes 17,395,000 shares of common stock and warrants to purchase 20,000,000 shares of common stock exercisable within 60 days of April 27, 2010. The address of Biotex Pharma Investments, LLC is c/o Biotex Pharma Investments, LLC, 220 West 42nd Street 6th Floor New York, New York 10036.

3 Includes 10,557,259 shares of common stock and warrants to purchase 3,952,569 shares of common stock exercisable within 60 days of April 27, 2010. The address of BAM Opportunity Fund, L.P. is 44 Wall Street, Suite 1603, New York, NY 10005.

4 Includes 4,900,020 shares of common stock and options to purchase 475,000 shares of common stock exercisable within 60 days of April 27, 2010. The address of Mr. Buhrman is c/o Soligenix, 29 Emmons Drive, Suite C-10, Princeton, New Jersey 08540.

5 Includes 471,817 shares of common stock owned by Dr. Schaber, options to purchase 4,918,750 shares of common stock exercisable within 60 days of April 27, 2010, and warrants to purchase 39,526 shares of common stock exercisable within 60 days of April 27, 2010. The address of Dr. Schaber is c/o Soligenix, 29 Emmons Drive, Suite C-10, Princeton, New Jersey 08540.

6 Includes 224,780 shares of common stock owned by Mr. Myriantopoulos and his wife and options to purchase 2,490,625 shares of common stock exercisable within 60 days of April 27, 2010. The address of Mr. Myriantopoulos is c/o Soligenix, 29 Emmons Drive, Suite C-10, Princeton, New Jersey 08540.

7 Includes options to purchase 1,237,500 shares of common stock exercisable within 60 days of April 27, 2010. The address of Dr. Brey is c/o Soligenix, 29 Emmons Drive, Suite C-10, Princeton, New Jersey 08540.

8 Includes options to purchase 328,125 shares of common stock owned by Mr. Schnittker exercisable within 60 days of April 27, 2010. The address of Mr. Schnittker is c/o Soligenix, 29 Emmons Drive, Suite C-10, Princeton, New Jersey 08540.

9 Includes options to purchase 300,000 shares of common stock exercisable within 60 days of April 27, 2010. The address of Dr. Rubin is c/o Soligenix, 29 Emmons Drive, Suite C-10, Princeton, New Jersey 08540.

10 Includes options to purchase 337,500 shares of common stock exercisable within 60 days of April 27, 2010. The address of Mr. Lapointe is c/o Soligenix, 29 Emmons Drive, Suite C-10, Princeton, New Jersey 08540.

11 Includes options to purchase 562,500 shares of common stock exercisable within 60 days of April 27, 2010. The address of Dr. Hamilton is c/o Soligenix, 29 Emmons Drive, Suite C-10, Princeton, New Jersey 08540.

\* Indicates less than 1%.

\*\* Beneficial ownership is determined in accordance with the rules of the SEC. Shares of common stock subject to options or warrants currently exercisable or exercisable within 60 days of April 27, 2010 are deemed outstanding for computing the percentage ownership of the stockholder holding the options or warrants, but are not deemed outstanding for computing the percentage ownership of any other stockholder. Percentage of ownership is based on 186,972,036 shares of common stock outstanding as of April 27, 2010.



## Equity Compensation Plan Information

In December 2005, our Board of Directors approved the 2005 Equity Incentive Plan, which was approved by stockholders on December 29, 2005. In September 2007, our stockholders approved an amendment to the 2005 Equity Incentive Plan to increase the maximum number of shares of our common stock available for issuance under the plan by 10,000,000 shares, bringing the total shares reserved for issuance under the plan to 20,000,000 shares. The following table provides information, as of December 31, 2009, with respect to options outstanding under our 1995 Amended and Restated Omnibus Incentive Plan and our 2005 Equity Incentive Plan.

| Plan Category  | Number of Securities<br>to be Issued<br>upon Exercise of<br>Outstanding Options,<br>Warrants and Rights | Weighted-Average<br>Exercise Price of<br>Outstanding Options,<br>Warrants and Rights | Number of Securities<br>Remaining Available<br>for<br>Future Issuance Under<br>Equity Compensation<br>Plans<br>(excluding securities<br>reflected<br>in the first column) |
|--|---|--|---|
| Equity compensation plans approved<br>by security holders <sup>1</sup> | 19,311,539  | \$ 0.24  | 454,831   |
| Equity compensation plans not<br>approved by security holders          | -   | -  | -   |
| <b>TOTAL</b>   | <b>19,311,539</b>   | <b>\$ 0.24</b>   | <b>454,831</b>  |

<sup>1</sup>Includes our 1995 Amended and Restated Omnibus Incentive Plan and our 2005 Equity Incentive Plan. Our 1995 Plan expired in 2005 and thus no securities remain available for future issuance under that plan. Under the amended 2005 equity incentive plan, we have issued 1,482,669 shares to individuals as payment for services in the amount of \$380,342 as allowed in the plan.

## SELLING STOCKHOLDERS

The following table presents information as of April 27, 2010 and sets forth the number of shares of common stock beneficially owned by each of the Selling Stockholders. We are not able to estimate the amount of shares that will be held by each Selling Stockholder after the completion of this offering because: (1) the Selling Stockholders may sell less than all of the shares registered under this prospectus; (2) the Selling Stockholders may exercise less than all of their warrants; and (3) to our knowledge, the Selling Stockholders currently have no agreements, arrangements or understandings with respect to the sale of any of their shares. The following table assumes that all of the shares being registered pursuant to this prospectus will be sold. The Selling Stockholders are not making any representation that any shares covered by this prospectus will be offered for sale. Except as otherwise indicated, based on information provided to us by each Selling Stockholder, the Selling Stockholders have sole voting and investment power with respect to their shares of common stock. Except as otherwise noted, none of the Selling Stockholders nor any of their affiliates have held a position or office, or had any other material relationship, with us.

On February 11, 2009, we entered into a collaboration and supply agreement with Sigma-Tau for the commercialization of orBec®. Pursuant to this agreement, Sigma-Tau has an exclusive license to commercialize orBec® in the Territory. The first milestone payment of \$1 million was made in connection with the enrollment of the first patient in our confirmatory Phase 3 clinical trial of orBec® for the treatment of acute GI GVHD. Total additional milestone payments due from Sigma-Tau for orBec® under the agreement could reach up to \$9 million. Sigma-Tau will pay us a 35% royalty (inclusive of drug supply) on net sales in the Territory as well as pay for commercialization expenses, including launch activities. On November 26, 2008, prior to entering the collaboration agreement, we sold Sigma-Tau 16,666,667 common shares at \$0.09 per share (the market price at the time) for proceeds of \$1,500,000 in exchange for the exclusive right to negotiate a collaboration deal with us until March 1, 2009.

| Name of Selling Stockholder           | Number of Shares of Common Stock Owned Before the Offering (1) | Percent of Common Stock Owned Before the Offering ** | Shares Available for Sale Under This Prospectus (2) | Number of Shares of Common Stock To Be Owned After Completion of the Offering | Percent of Common Stock to be Owned After Completion of the Offering |
|---------------------------------------|--|--|---|---|--|
| Biotex Pharma Investments, LLC (3)    | 40,000,000   | 24.3 %   | 20,000,000  | 20,000,000  | *  |
| Revach Fund LP (4)                    | 701,754  | *  | 701,754   | -   | *  |
| Omacatl Capital, LTD (5)              | 1,150,696  | *  | 438,596   | 712,100   | *  |
| Richard Molinsky                      | 400,000  | *  | 400,000   | -   | *  |
| Bernard and Miriam Pismeny JT TEN     | 1,055,000  | *  | 200,000   | 855,000   | *  |
| Robin B. Lipinski                     | 1,271,720  | *  | 87,720  | 1,184,000   | *  |
| Sigma-Tau Pharmaceuticals, Inc. (6)   | 41,666,667   | 25.0 %   | 16,666,667  | 25,000,000  | 15.0 %   |
| Mark Tolpin                           | 269,789  | *  | 269,789   | -   | *  |
| Martin S. Kratchman                   | 21,875   | *  | 21,875  | -   | *  |
| John Andreadis                        | 21,875   | *  | 21,875  | -   | *  |
| Little Gem Life Sciences Fund LLC (7) | 1,023,999  | *  | 300,000   | 723,999   | *  |

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|   |           |     |   |           |         |   |
|---|-----------|-----|---|-----------|---------|---|
| Prospera Technology, LLC<br>(8)             | 1,000,000 | *   |   | 1,000,000 | -       | * |
| George B. McDonald,<br>M.D.                 | 1,600,000 | *   |   | 1,000,000 | 600,000 | * |
| Strategic Outsourcing<br>Solutions, LLC (9) | 50,000    | *   |   | 50,000    | -       | * |
| Numoda Corporation (10)                     | 2,847,222 | 1.5 | % | 3,333,334 | 347,222 | * |

\* Less than 1%.

\*\* Beneficial ownership is determined in accordance with the rules of the SEC. Shares of common stock subject to options or warrants currently exercisable or exercisable within 60 days of April 9, 2009, are deemed outstanding for computing the percentage ownership of the stockholder holding the options or warrants, but are not deemed outstanding for computing the percentage ownership of any other stockholder. Percentage of ownership is based on 186,972,036 shares of common stock outstanding as of April 27, 2010.

- (1) The shares of common stock issuable upon the exercise of warrants are as follows: Biotex Pharma Investments, LLC - 20,000,000 shares; Revach Fund LP - 350,877 shares; Omacatl Capital, LTD - 219,298 shares; Richard Molinsky - 200,000 shares; Bernard and Miriam Pismeny, JT TEN - 100,000 shares; Robin B. Lipinski - 43,860 shares; Mark Tolpin - 100,000; Little Gem Life Sciences Fund, LLC - 300,000; Prospera Technology, LLC - 1,000,000; George B. McDonald - 1,000,000; and Strategic Outsourcing Solutions, LLC - 50,000. Includes 833,334 shares of our common stock that may be sold to Numoda Corporation pursuant to the terms of a Stock Purchase Agreement dated March 6, 2009 between the Company and Numoda Corporation.
- (2) The shares of common stock issuable upon the exercise of warrants are as follows: Revach Fund LP - 350,877 shares; Omacatl Capital, LTD - 219,298 shares; Richard Molinsky - 200,000 shares; Bernard and Miriam Pismeny, JT TEN - 100,000 shares; Robin B. Lipinski - 43,860 shares; Mark Tolpin - 100,000; Little Gem Life Sciences Fund, LLC - 300,000; Prospera Technology, LLC - 1,000,000; George B. McDonald - 1,000,000; and Strategic Outsourcing Solutions, LLC - 50,000.
- (3) Robert Kessler exercises voting or dispositive power with respect to the shares held of record by Biotex Pharma Investments, LLC.
- (4) Chaim Davis exercises sole voting or dispositive power with respect to the shares held of record by Revach Fund LP.
- (5) Baruch Ruttner exercises sole voting or dispositive power with respect to the shares held of record by Omacatl Capital, LTD.
- (6) Gregg Lapointe, Paolo Cavazza and Claudio Cavazza exercise voting or dispositive power with respect to the shares held of record by Sigma-Tau Pharmaceuticals, Inc. The amount does not include 1,546,870 shares of common stock held by Paolo Cavazza.
- (7) Jeffrey Benison exercises sole voting or dispositive power with respect to the shares held of record by Little Gem Life Sciences Fund, LLC.
- (8) David Gentile exercises sole voting or dispositive power with respect to the shares held of record by Prospera Technology, LLC.
- (9) Susan M. Little exercises sole voting or dispositive power with respect to the shares held of record by Strategic Outsourcing Solutions, LLC.
- (10) Mary Schaheen exercises sole voting or dispositive power with respect to the shares held of record by Numoda Corporation.



## USE OF PROCEEDS

This prospectus relates to shares of our common stock that may be offered and sold from time to time by the Selling Stockholders. We will receive no proceeds from the sale of shares of common stock in this offering. However, we may receive up to approximately \$2,400,000 in proceeds from the exercise of the warrants to purchase our common stock. We intend to use the net proceeds from the exercise of the warrants as working capital to cover costs associated with the completion of the confirmatory Phase 3 clinical trial for orBec®, other research and development expenses, and general overhead costs including salaries until such time, if ever, as we are able to generate a positive cash flow from operations.

## PLAN OF DISTRIBUTION

The Selling Stockholders and any of their pledgees, donees, transferees, assignees and successors-in-interest may, from time to time, sell any or all of their shares of common stock on any stock exchange, market or trading facility on which the shares are traded or in private transactions. These sales may be at fixed or negotiated prices. The Selling Stockholders may use any one or more of the following methods when selling shares:

- ordinary brokerage transactions and transactions in which the broker-dealer solicits investors;
- block trades in which the broker-dealer will attempt to sell the shares as agent but may position and resell a portion of the block as principal to facilitate the transaction;
- purchases by a broker-dealer as principal and resale by the broker-dealer for its account;
- an exchange distribution in accordance with the rules of the applicable exchange;
- privately negotiated transactions;
- to cover short sales and other hedging transactions made after the date that the registration statement of which this prospectus is a part is declared effective by the SEC;
- broker-dealers may agree with the Selling Stockholders to sell a specified number of such shares at a stipulated price per share;
- a combination of any such methods of sale; and
- any other method permitted pursuant to applicable law.

The Selling Stockholders may also sell shares under Rule 144 under the Securities Act, if available, rather than under this prospectus.

Broker-dealers engaged by the Selling Stockholders may arrange for other brokers-dealers to participate in sales. Broker-dealers may receive commissions or discounts from the Selling Stockholders (or, if any broker-dealer acts as agent for the investor of shares, from the purchaser) in amounts to be negotiated. The Selling Stockholders do not expect these commissions and discounts to exceed what is customary in the types of transactions involved.

The Selling Stockholders may from time to time pledge or grant a security interest in some or all of the Shares owned by them and, if they default in the performance of their secured obligations, the pledgees or secured parties may offer and sell shares of common stock from time to time under this prospectus, or under an amendment to this prospectus under Rule 424(b)(3) or other applicable provision of the Securities Act of 1933 amending the list of Selling Stockholders to include the pledgee, transferee or other successors in interest as Selling Stockholders under this prospectus.

Upon our being notified in writing by a Selling Stockholder that any material arrangement has been entered into with a broker-dealer for the sale of common stock through a block trade, special offering, exchange distribution or secondary distribution or a purchase by a broker or dealer, a supplement to this prospectus will be filed, if required, pursuant to Rule 424(b) under the Securities Act, disclosing (i) the name of each such Selling Stockholder and of the participating broker-dealer(s), (ii) the number of shares involved, (iii) the price at which such shares of common stock were sold, (iv) the commissions paid or discounts or concessions allowed to such broker-dealer(s), where applicable, (v) that such broker-dealer(s) did not conduct any investigation to verify the information set out or incorporated by reference in this prospectus, and (vi) other facts material to the transaction. In addition, upon our being notified in writing by a Selling Stockholder that a donee or pledge intends to sell more than 500 shares of common stock, a supplement to this prospectus will be filed if then required in accordance with applicable securities law.

The Selling Stockholders also may transfer the shares of common stock in other circumstances, in which case the transferees, pledgees or other successors in interest will be the selling beneficial owners for purposes of this prospectus.

The Selling Stockholders and any broker-dealers or agents that are involved in selling the shares may be deemed to be “underwriters” within the meaning of the Securities Act in connection with such sales. In such event, any commissions received by such broker-dealers or agents and any profit on the resale of the shares purchased by them may be deemed to be underwriting commissions or discounts under the Securities Act. Discounts, concessions, commissions and similar selling expenses, if any, that can be attributed to the sale of securities will be paid by the Selling Stockholders and/or the purchasers of the securities.

Each Selling Stockholder that is affiliated with a registered broker-dealer has confirmed to us that, at the time it acquired the securities subject to the registration statement of which this prospectus is a part, it did not have any agreement or understanding, directly or indirectly, with any person to distribute any of such securities. The Company has advised each Selling Stockholder that it may not use shares registered on the registration statement of which this prospectus is a part to cover short sales of our common stock made prior to the date on which such registration statement was declared effective by the SEC.

We are required to pay certain fees and expenses incident to the registration of the shares. We have agreed to indemnify the Selling Stockholders against certain losses, claims, damages and liabilities, including liabilities under the Securities Act. We agreed to keep this prospectus effective until the earlier of (i) the date on which the shares may be resold by the Selling Stockholders without registration and without regard to any volume limitations by reason of Rule 144(e) under the Securities Act or any other rule of similar effect and (ii) such time as all of the shares have been publicly sold.

## DESCRIPTION OF SECURITIES

Our authorized capital stock consists of 405,000,000 shares of capital stock, of which 400,000,000 shares are common stock, par value \$0.001 per share, 4,600,000 shares are preferred stock, par value \$0.001 per share, 200,000 are Series B Convertible Preferred Stock, par value \$0.05 per share, and 200,000 shares are Series C Convertible Preferred Stock, par value \$0.05 per share. As of April 27, 2010, there were issued and outstanding 186,972,036 shares of common stock, options to purchase 18,763,539 shares of common stock and warrants to purchase 42,527,874 shares of common stock. The amount outstanding includes the 17,352,569 shares of common stock issued to the Selling Stockholders.

### Common Stock

Holders of our common stock are entitled to one vote for each share held in the election of directors and in all other matters to be voted on by the stockholders. There is no cumulative voting in the election of directors. Holders of common stock are entitled to receive dividends as may be declared from time to time by our board of directors out of funds legally available therefor. In the event of liquidation, dissolution or winding up of the corporation, holders of common stock are to share in all assets remaining after the payment of liabilities. Holders of common stock have no pre-emptive or conversion rights and are not subject to further calls or assessments. There are no redemption or sinking fund provisions applicable to the common stock. The rights of the holders of the common stock are subject to any rights that may be fixed for holders of preferred stock. All of the outstanding shares of common stock are fully paid and non-assessable.

### Preferred Stock

Our Certificate of Incorporation authorizes the issuance of 4,600,000 shares of preferred stock with designations, rights, and preferences as may be determined from time to time by the board of directors. The board of directors is empowered, without stockholder approval, to designate and issue additional series of preferred stock with dividend, liquidation, conversion, voting or other rights, including the right to issue convertible securities with no limitations on conversion, which could adversely affect the voting power or other rights of the holders of our common stock, substantially dilute a common stockholder's interest and depress the price of our common stock.

No shares of the Series B Convertible Preferred Stock or the Series C Convertible Preferred Stock are outstanding.



## MARKET FOR COMMON EQUITY AND RELATED STOCKHOLDER MATTERS

Our common stock is quoted on the Over-the-Counter Bulletin Board (“OTCBB”) under the symbol “SNGX.” Prior to September 30, 2009, around the time of our corporate name change, our stock was quoted under the symbol “DORB.” The following table sets forth, for the periods indicated, the high and low sales prices per share of our common stock as reported by the OTCBB.

| Period                        | Price Range |         |
|-------------------------------|-------------|---------|
|                               | High        | Low     |
| Year Ended December 31, 2008: |             |         |
| First Quarter                 | \$ 0.25     | \$ 0.16 |
| Second Quarter                | \$ 0.19     | \$ 0.11 |
| Third Quarter                 | \$ 0.15     | \$ 0.09 |
| Fourth Quarter                | \$ 0.12     | \$ 0.04 |
| Year Ended December 31, 2009: |             |         |
| First Quarter                 | \$ 0.18     | \$ 0.06 |
| Second Quarter                | \$ 0.24     | \$ 0.09 |
| Third Quarter                 | \$ 0.38     | \$ 0.17 |
| Fourth Quarter                | \$ 0.36     | \$ 0.18 |

As of April 27, 2010, the last reported price of our common stock quoted on the OTCBB was \$0.29 per share. The OTCBB prices set forth above represent inter-dealer quotations, without adjustment for retail mark-up, mark-down or commission, and may not represent the prices of actual transactions. As of April 27, 2010, we have approximately 986 stockholders of record of our common stock.

## Dividends

We have never declared nor paid any cash dividends, and currently intend to retain all our cash and any earnings for use in our business and, therefore, do not anticipate paying any cash dividends in the foreseeable future. Any future determination to pay cash dividends will be at the discretion of the Board of Directors and will be dependent upon our consolidated financial condition, results of operations, capital requirements and such other factors as the Board of Directors deems relevant.

DISCLOSURE OF COMMISSION POSITION ON INDEMNIFICATION FOR SECURITIES  
ACT LIABILITIES

Section 102(b)(7) of the Delaware General Corporation Law allows companies to limit the personal liability of its directors to the company or its stockholders for monetary damages for breach of a fiduciary duty. Article IX of the Company's Certificate of Incorporation, as amended, provides for the limitation of personal liability of the directors of the Company as follows:

“A Director of the Corporation shall have no personal liability to the Corporation or its stockholders for monetary damages for breach of his fiduciary duty as a Director; provided, however, this Article shall not eliminate or limit the liability of a Director (i) for any breach of the Director's duty of loyalty to the Corporation or its stockholders; (ii) for acts or omissions not in good faith or which involve intentional misconduct or a knowing violation of law; (iii) for the unlawful payment of dividends or unlawful stock repurchases under Section 174 of the General Corporation Law of the State of Delaware; or (iv) for any transaction from which the Director derived an improper personal benefit. If the General Corporation Law is amended after approval by the stockholders of this Article to authorize corporate action further eliminating or limiting the personal liability of directors, then the liability of a director of the Corporation shall be eliminated or limited to the fullest extent permitted by the General Corporation Law of the State of Delaware, as so amended.”

Article VIII of the Company's Bylaws, as amended and restated, provide for indemnification of directors and officers to the fullest extent permitted by the Delaware General Corporation Law.

Insofar as indemnification for liabilities arising under the Securities Act of 1933 may be permitted to directors, officers or persons controlling the registrant pursuant to the foregoing provisions, the registrant has been informed that in the opinion of the SEC such indemnification is against public policy as expressed in the Act and is therefore unenforceable.

EXPERTS

The audited consolidated financial statements of Soligenix, Inc. and subsidiaries included in the Registration Statement have been audited by Amper, Politziner & Mattia, LLP, an independent registered public accounting firm, as set forth in their report appearing herein. Such financial statements have been so included in reliance upon the reports of such firm given upon their authority as experts in accounting and auditing.

LEGAL MATTERS

The validity of the shares of our common stock offered by the Selling Stockholders will be passed upon by the law firm of Edwards Angell Palmer & Dodge LLP, West Palm Beach, Florida.

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CONSOLIDATED FINANCIAL STATEMENTS

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Soligenix, Inc. and Subsidiaries  
Consolidated Balance Sheets  
As of December 31,

|  | 2009          | 2008          |
|--|---------------|---------------|
| Assets   |               |               |
| Current assets:  |               |               |
| Cash and cash equivalents  | \$7,692,011   | \$1,475,466   |
| Grants receivable  | 23,632        | 278,316       |
| Inventory, net   | 42,865        | 82,182        |
| Prepaid expenses   | 141,313       | 86,837        |
| Total current assets   | 7,899,821     | 1,922,801     |
| Office furniture and equipment, net  | 21,172        | 21,217        |
| Intangible assets, net   | 1,463,289     | 1,418,717     |
| Total assets   | \$9,384,282   | \$3,362,735   |
| Liabilities and shareholders' equity   |               |               |
| Current liabilities:   |               |               |
| Accounts payable   | \$844,857     | \$1,015,005   |
| Accrued compensation   | 365,199       | 370,614       |
| Total current liabilities  | 1,210,056     | 1,385,619     |
| Commitments and contingencies  |               |               |
| Shareholders' equity:  |               |               |
| Preferred stock; 5,000,000 shares authorized; none issued or outstanding   | -             | -             |
| Common stock, \$.001 par value; 400,000,000 shares authorized; 185,655,720 shares and 118,610,704 shares issued and outstanding in 2009 and 2008, respectively | 185,656       | 118,610       |
| Additional paid-in capital   | 116,340,770   | 104,176,253   |
| Accumulated deficit  | (108,352,200) | (102,317,747) |
| Total shareholders' equity   | 8,174,226     | 1,977,116     |
| Total liabilities and shareholders' equity   | \$9,384,282   | \$3,362,735   |

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

Soligenix, Inc. and Subsidiaries  
Consolidated Statements of Operations  
For the Years Ended December 31,

|  | 2009           | 2008           |
|--|----------------|----------------|
| Revenues, principally from grants                            | \$2,816,037    | \$2,310,265    |
| Cost of revenues   | (1,483,641 )   | (1,886,431 )   |
| Gross profit   | 1,332,396      | 423,834        |
| Operating expenses:  |                |                |
| Research and development                                     | 4,523,375      | 1,552,323      |
| General and administrative                                   | 2,281,251      | 1,941,719      |
| Stock-based compensation - research and development          | 210,834        | 182,168        |
| Stock-based compensation - general and administrative        | 368,232        | 203,448        |
| Total operating expenses                                     | 7,383,692      | 3,879,658      |
| Loss from operations   | (6,051,296 )   | (3,455,824 )   |
| Other income (expense):                                      |                |                |
| Interest income  | 21,920         | 37,073         |
| Interest expense   | (2,678 )       | (3,276 )       |
| Other expense  | (2,399 )       | -              |
| Total other income (expense)                                 | 16,843         | 33,797         |
| Net loss   | \$(6,034,453 ) | \$(3,422,027 ) |
| Basic and diluted net loss per share                         | \$(0.04 )      | \$(0.03 )      |
| Basic and diluted weighted average common shares outstanding | 167,515,043    | 101,881,991    |

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

Soligenix, Inc. and Subsidiaries  
 Consolidated Statements of Changes in Shareholders' Equity (Deficit)  
 For the Years Ended December 31, 2009 and 2008

|  | Common Stock |           | Additional         | Accumulated     | Total         |
|--|--------------|-----------|--------------------|-----------------|---------------|
|  | Shares       | Par Value | Paid-In<br>Capital | Deficit         |               |
| Balance, January 1, 2008   | 94,996,547   | \$94,996  | \$101,391,090      | \$(98,895,720)  | \$(2,590,366) |
| Issuance of common stock from private placement                                | 3,658,890    | 3,659     | 654,940            | -               | 658,599       |
| Issuance of common stock for commitment shares - Fusion                        | 1,369,125    | 1,369     | (1,369)            | -               | -             |
| Issuance of common stock for execution of letter of intent                     | 16,666,667   | 16,667    | 1,483,333          | -               | 1,500,000     |
| Issuance of common stock pursuant to equity line agreement - Fusion            | 993,084      | 993       | 126,507            | -               | 127,500       |
| Issuance of common stock to vendors  | 758,082      | 758       | 110,440            | -               | 111,198       |
| Issuance of common stock as payment to employees                               | 168,309      | 168       | 25,696             | -               | 25,864        |
| Stock-based compensation expense   | -            | -         | 385,616            | -               | 385,616       |
| Net loss   | -            | -         | -                  | (3,422,027)     | (3,422,027)   |
| Balance, December 31, 2008   | 118,610,704  | \$118,610 | \$104,176,253      | \$(102,317,747) | \$1,977,116   |
| Issuance of common stock from private placements, net of expenses of \$347,000 | 38,266,602   | 38,267    | 6,488,995          | -               | 6,527,262     |
| Issuance of common stock for collaboration and supply agreement with Sigma Tau | 25,000,000   | 25,000    | 4,375,000          | -               | 4,400,000     |
| Issuance of common stock pursuant to equity line agreement - Fusion            | 708,989      | 709       | 114,292            | -               | 115,001       |
| Issuance of common stock to vendors  | 2,500,000    | 2,500     | 297,500            | -               | 300,000       |
| Issuance of common stock warrants to vendors                                   | -            | -         | 190,655            | -               | 190,655       |
| Issuance of common stock to former employee                                    | 569,425      | 570       | 119,009            | -               | 119,579       |
| Stock-based compensation expense   | -            | -         | 579,066            | -               | 579,066       |
| Net loss   | -            | -         | -                  | (6,034,453)     | (6,034,453)   |
| Balance, December 31, 2009   | 185,655,720  | \$185,656 | \$116,340,770      | \$(108,352,200) | \$8,174,226   |

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

Soligenix, Inc. and Subsidiaries  
Consolidated Statements of Cash Flows  
For the Years Ended December 31,

|  | 2009           | 2008          |
|--|----------------|---------------|
| Operating activities:  |                |               |
| Net loss   | \$(6,034,453 ) | \$(3,422,027) |
| Adjustments to reconcile net loss to net cash used<br>in operating activities: |                |               |
| Amortization and depreciation  | 175,604        | 149,183       |
| Inventory reserve  | 50,000         | 100,000       |
| Stock or warrants issued in exchange for services                              | 490,654        | 137,062       |
| Stock-based compensation   | 579,066        | 385,616       |
| Stock issued to former employee  | 119,579        | -             |
| Loss on disposal of fixed assets   | 2,399          | -             |
| Change in operating assets and liabilities:                                    |                |               |
| Grants receivable  | 254,684        | (180,471 )    |
| Inventory  | (10,683 )      | (182,182 )    |
| Prepaid expenses   | (54,476 )      | 32,341        |
| Accounts payable   | (170,148 )     | 167,396       |
| Accrued compensation   | (5,415 )       | 24,710        |
| Total adjustments  | 1,431,264      | 633,655       |
| Net cash used in operating activities  | (4,603,189 )   | (2,788,372)   |
| Investing activities:  |                |               |
| Acquisition of intangible assets   | (206,799 )     | (237,113 )    |
| Purchase of office equipment   | (15,730 )      | (5,277 )      |
| Net cash used in investing activities  | (222,529 )     | (242,390 )    |
| Financing activities:  |                |               |
| Net proceeds from sale of common stock   | 10,927,262     | 2,158,600     |
| Proceeds from sale of common stock pursuant to equity line                     | 115,001        | 127,500       |
| Net cash provided by financing activities                                      | 11,042,263     | 2,286,100     |
| Net increase (decrease) in cash and cash equivalents                           | 6,216,545      | (744,662 )    |
| Cash and cash equivalents at beginning of period                               | 1,475,466      | 2,220,128     |
| Cash and cash equivalents at end of period                                     | \$7,692,011    | \$1,475,466   |
| Supplemental disclosure of cash flow:  |                |               |
| Cash paid for interest   | \$2,678        | \$3,276       |
| Non-cash transactions:   |                |               |
| Issuance of commitment shares  | \$-            | \$272,484     |

The accompanying notes are an integral part of these financial statements

Soligenix, Inc. and Subsidiaries  
Notes to Consolidated Financial Statements

Note 1. Nature of Business

Basis of Presentation

Soligenix, Inc. (the “Company”), formerly known as DOR BioPharma, Inc., is a late-stage biopharmaceutical company that was incorporated in 1987 and is focused on developing products to treat the life-threatening side effects of cancer treatments and serious gastrointestinal diseases where there remains an unmet medical need, as well as developing biodefense vaccines and therapeutics. The Company maintains two active business segments: BioTherapeutics and BioDefense. Soligenix’s BioTherapeutics business segment intends to develop orBec® (oral beclomethasone dipropionate, or oral BDP) and other biotherapeutic products, including LPMTM-Leuprolide. Soligenix’s BioDefense business segment intends to convert its ricin and botulinum toxin vaccine programs and radiation injury program from early stage development to advanced development and manufacturing.

The Company generates revenues from the National Institutes of Health under three active BioDefense grants, the successful achievement of development milestones under collaborative agreements, and its Named Patient Access Program (“NPAP”) partners for orBec®.

The Company is subject to risks common to companies in the biotechnology industry including, but not limited to, development of new technological innovations, dependence on key personnel, protections of proprietary technology, compliance with FDA regulations, litigation, and product liability.

Liquidity

As of December 31, 2009, the Company had cash and cash equivalents of \$7,692,011 as compared to \$1,475,466 as of December 31, 2008, representing an increase of \$6,216,545. As of December 31, 2009, the Company had working capital of \$6,689,765 as compared to working capital of \$537,182 as of December 31, 2008, representing an increase of \$6,152,583. The increase was the result of the execution of our collaboration agreement and ensuing sale of our common stock to our commercialization partner Sigma-Tau of \$4.5 million, plus the \$6.5 million in proceeds from the sale of our common stock and warrants to accredited investors, less the cash used in operating and investing activities over the period.

For the year ended December 31, 2009, the Company’s cash used in operating activities was \$4,603,189, as compared to \$2,788,372 for the same period in 2008. The increase in spending was attributable to the preparation for and conduct of the confirmatory Phase 3 clinical trial of orBec® in the treatment of GI GVHD.



Management's business activities can be outlined as follows:

- complete the pivotal Phase 3 confirmatory clinical trial for orBec® in the treatment of acute gastrointestinal Graft-versus-Host disease ("GI GVHD");
- identify a development and marketing partner for orBec® for territories outside of North America, as we have granted an exclusive license to Sigma-Tau Pharmaceuticals, Inc. ("Sigma-Tau") to commercialize orBec® in the U.S., Canada and Mexico;
  - conduct and complete a Phase 2 clinical trial of orBec® for the prevention of acute GVHD;
- evaluate and initiate additional clinical trials to explore the effectiveness of oral BDP in other therapeutic indications involving inflammatory conditions of the gastrointestinal tract such as radiation enteritis, radiation injury and Crohn's disease;
  - reinstate development of our other biotherapeutics products, including LPMTM Leuprolide;
- continue to secure additional government funding for each of our BioDefense programs through grants, contracts and procurements;
- convert our biodefense vaccine programs from early stage development to advanced development and manufacturing with the potential to collaborate and/or partner with other companies in the biodefense area;
- make orBec® available worldwide through the Named Patient Access Program for the treatment of acute GI GVHD;
  - acquire or in-license new clinical-stage compounds for development; and
    - explore other business development and acquisition strategies.

Based on the Company's current rate of cash outflows, cash on hand, the timely collection of milestone payments under collaboration agreements, proceeds from our grant programs, and potential minimal proceeds from the Fusion Capital transaction, management believes that its current cash will be sufficient to meet the anticipated cash needs for working capital and capital expenditures beyond the first quarter of 2011.

The Company's plans with respect to its liquidity management include the following:

- We have \$10 million in active grant funding still available to support our research programs in 2010 and beyond. Additionally, we have submitted additional grant applications for further support of these programs and others with various funding agencies, and received encouraging feedback to date on the likelihood of funding.
- We have continued to use equity instruments to provide a portion of the compensation due to vendors and collaboration partners and expect to continue to do so for the foreseeable future.
- We have approximately \$7.7 million in available capacity under our Fusion Capital equity facility. Although we have historically drawn amounts in modest amounts under this agreement, we could draw more within certain contractual parameters.
- We may seek additional capital in the private and/or public equity markets to continue our operations, respond to competitive pressures, develop new products and services, and to support new strategic partnerships. We are currently evaluating additional equity financing opportunities and may execute them when appropriate. However, there can be no assurances that we can consummate such a transaction, or consummate a transaction at favorable pricing.

## Note 2. Summary of Significant Accounting Policies

### Principles of Consolidation

The consolidated financial statements include Soligenix, Inc., and its wholly and majority owned subsidiaries. All significant intercompany accounts and transactions have been eliminated as a result of consolidation.

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## Operating Segments

Operating segments are defined as components of an enterprise about which separate financial information is available that is evaluated on a regular basis by the chief operating decision maker, or decision making group, in deciding how to allocate resources to an individual segment and in assessing the performance of the segment. The Company divides its operations into two operating segments: BioTherapeutics and BioDefense.

## Grants Receivable

Receivables consist of unbilled amounts due from grants from the National Institute of Health of the U.S. Federal Government for costs incurred prior to the period end under reimbursement contracts. The amounts were billed in the month subsequent to period end and collected shortly thereafter. The Company considers the grants receivable to be fully collectible; accordingly, no allowance for doubtful amounts has been established. If amounts become uncollectible, they are charged to operations.

## Intangible Assets

One of the most significant estimates or judgments that the Company makes is whether to capitalize or expense patent and license costs. The Company makes this judgment based on whether the technology has alternative future uses, as defined in Financial Accounting Standards Board (FASB) Accounting Standards Codification (ASC) 730, Research and Development. Based on this consideration, the Company capitalizes payments made to legal firms that are engaged in filing and protecting rights to intellectual property and rights for our current products in both the domestic and international markets. The Company believes that patent rights are one of its most valuable assets. Patents and patent applications are a key component of intellectual property, especially in the early stage of product development, as their purchase and maintenance gives the Company access to key product development rights from Soligenix's academic and industrial partners. These rights can also be sold or sub-licensed as part of its strategy to partner its products at each stage of development as the intangible assets have alternative future use. The legal costs incurred for these patents consist of work designed to protect, preserve, maintain and perhaps extend the lives of the patents. The Company capitalizes such costs and amortizes intangibles over their expected useful life – generally a period of 11 to 16 years.

The Company capitalized \$206,799 and \$237,113 in patent related costs during the years ended December 31, 2009 and 2008, respectively.

## Impairment of Long-Lived Assets

Office furniture and equipment and intangible assets are evaluated and reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount may not be recoverable. The Company recognizes impairment of long-lived assets in the event the net book value of such assets exceeds the estimated future undiscounted cash flows attributable to such assets. If the sum of the expected undiscounted cash flows is less than the carrying value of the related asset or group of assets, a loss is recognized for the difference between the fair value and the carrying value of the related asset or group of assets. Such analyses necessarily involve significant judgment.

The Company did not record any impairment of intangible assets for the years ended December 31, 2009 or 2008.

## Inventory

Inventories are stated at the lower of cost or market. Cost is determined using the first-in, first-out (FIFO) method and includes the cost of materials and overhead. Inventory consists of finished goods related to the orBec® NPAP. The Company records an allowance as needed for excess inventory. During 2008 and 2009 allowances of \$100,000 and \$150,000, respectively, were provided. This allowance will be evaluated on a periodic basis and adjustments will be made as required.

## Fair Value of Financial Instruments

Accounting principles generally accepted in the U.S. require that fair values be disclosed for the Company's financial instruments. The carrying amounts of the Company's financial instruments, which include grants receivable and current liabilities, are considered to be representative of their respective fair values.

## Revenue Recognition

The Company's revenues are generated from NIH grants, the achievement of licensing milestones and NPAP sales of orBec®. The revenue from NIH grants are based upon subcontractor costs and internal costs incurred that are specifically covered by the grants, plus a facilities and administrative rate that provides funding for overhead expenses. These revenues are recognized when expenses have been incurred by subcontractors or when the Company incurs internal expenses that are related to the grant. Licensing milestone revenues are recorded when earned. Revenue from NPAP sales of orBec® are recognized when the product is shipped.

## Research and Development Costs

Research and development costs are charged to expense when incurred. Research and development includes costs such as clinical trial expenses, contracted research and license agreement fees with no alternative future use, supplies and materials, salaries and employee benefits, equipment depreciation and allocation of various corporate costs. Purchased in-process research and development expense represents the value assigned or paid for acquired research and development for which there is no alternative future use as of the date of acquisition.

## Stock-Based Compensation

Stock options are issued with an exercise price equal to the market price on the date of issuance. Stock options issued to directors are fully vested upon issuance. Stock options issued to employees generally vest 25% upfront, then 25% each year for a period of three years. Stock options vest over each three month period from the date of issuance to the end of the three year period. These options have a ten year life for as long as the individuals remain employees or directors. In general when an employee or director terminates their position the options will expire within six months, unless otherwise extended by the Board.

The fair value of options in accordance with FASB ASC 718, Stock Compensation, was estimated using the Black-Scholes option-pricing model and the following weighted-average assumptions:

- no dividend yield;
- an expected life of 4 years;
- volatilities ranging from 126% to 130% for 2009 and 115% for 2008; and
- average risk-free interest rates of 1.8% and 1.1% in 2009 and 2008, respectively.

The Company estimates these values based on the assumptions that have been historically available. The fair value of each option grant made during 2009 and 2008 was estimated on the date of each grant using the Black-Scholes option pricing model and amortized ratably over the option's vesting periods, which approximates the service period. The Company awarded 3,712,500 and 6,800,000 stock options in 2009 and 2008, respectively.

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Stock compensation expense for options, warrants and shares of common stock granted to non-employees has been determined in accordance with FASB ASC 718, Stock Compensation, and FASB ASC 505-50, Equity-Based Payments to Non-Employees, and represents the fair value of the consideration received, or the fair value of the equity instruments issued, whichever may be more reliably measured. For options that vest over future periods, the fair value of options granted to non-employees is amortized as the options vest. The option's price is re-measured using the Black-Scholes model at the end of each three month reporting period.

Upon exercise, shares are issued from the amended 2005 equity incentive plan and increase the number of shares the Company has outstanding. There were no stock option exercises during 2009 or 2008. There were forfeitures or expirations of 620,000 and 100,000 stock options during 2009 and 2008, respectively. The intrinsic value of the stock options outstanding at December 31, 2009 was zero.

The intrinsic value was calculated as the difference between the Company's common stock closing price on the Over-the-Counter Bulletin Board at December 31, 2009 and the exercise price of the stock option issued multiplied by the number of shares underlying the stock options. The Company's common stock price at December 31, 2009 was \$0.25.

From time to time, the Company issues common stock to vendors, consultants, and employees as compensation for services performed. These shares are typically issued as restricted stock, unless issued to non-affiliates under the 2005 Equity Incentive Plan, where the stock may be issued as unrestricted. The restricted stock can only have the restrictive legend removed if the shares underlying the certificate are sold pursuant to an effective registration statement, which the Company must file and have approved by the SEC, if the shares underlying the certificate are sold pursuant to Rule 144, provided certain conditions are satisfied, or if the shares are sold pursuant to another exemption from the registration requirements of the Securities Act of 1933, as amended. Stock-based compensation expense recognized during the period is based on the value of the common stock at the date of grant and the portion of share-based payment awards that is ultimately expected to vest during the period.

#### Income Taxes

Deferred tax assets and liabilities are recognized for the future tax consequences attributable to differences between the financial statement carrying amounts of existing assets and liabilities and their respective tax bases. A valuation allowance is established when it is more likely than not that all or a portion of a deferred tax asset will not be realized. A review of all available positive and negative evidence is considered, including the Company's current and past performance, the market environment in which the Company operates, the utilization of past tax credits, and the length of carryback and carryforward periods. Deferred tax assets and liabilities are measured utilizing tax rates expected to apply to taxable income in the years in which those temporary differences are expected to be recovered or settled. No current or deferred income taxes have been provided through December 31, 2009 due to the net operating losses incurred by the Company since its inception. Additionally, the Company has not recorded a liability for unrecognized tax benefits for December 31, 2009 and 2008.

#### Earnings Per Share

Basic earnings per share ("EPS") excludes dilution and is computed by dividing income available to common stockholders by the weighted-average number of common shares outstanding for the period. Diluted EPS reflects the potential dilution that could occur if securities or other contracts to issue common stock were exercised or converted into common stock or resulted in the issuance of common stock that shared in the earnings of the entity. Since there is a large number of options and warrants outstanding, fluctuations in the actual market price can have a variety of results for each period presented.



|                     | For the Year Ended<br>December 31, 2009 |             |          | For the Year Ended<br>December 31, 2008 |             |          |
|---------------------|---|-------------|----------|---|-------------|----------|
|                     | Net Loss                                | Shares      | EPS      | Net Loss                                | Shares      | EPS      |
| Basic & Diluted EPS | \$(6,034,453)                           | 167,515,043 | \$(0.04) | \$(3,422,027)                           | 101,881,991 | \$(0.03) |

Options and warrants outstanding at December 31, 2009 and 2008 were 19,311,539 and 16,370,039 options, and 42,472,874 and 20,350,148 warrants, respectively. No options and warrants were included in the 2009 and 2008 computations of diluted earnings per share because their effect would be anti-dilutive as a result of losses in each of those years.

#### Use of Estimates and Assumptions

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 in the financial statements and accompanying notes. Actual results could differ from those estimates.

#### New Accounting Pronouncements

In June 2009, the FASB issued ASC 105, Generally Accepted Accounting Principles, which establishes the FASB Accounting Standards Codification as the sole source of authoritative generally accepted accounting principles. The Codification supersedes existing GAAP for nongovernmental entities. Pursuant to the provisions of FASB ASC 105, the Company has updated references to GAAP in its financial statements issued for the period ended September 30, 2009 and thereafter. The implementation of these standards did not have any effect on the Company's consolidated financial statements.

In October 2009, the FASB issued ASC 605-25, Revenue Recognition – Multiple Element Arrangements, which defines a milestone and clarifies whether a vendor may recognize arrangement consideration earned from the achievement of a milestone in its entirety in the period in which the milestone is achieved. A milestone is defined as an event for which there is “substantial” uncertainty at the date the arrangement is entered into that the event will be achieved. The consideration earned from the achievement of a milestone is commensurate with either the vendor's performance to achieve the milestone or the enhancement of the value of the delivered item and relates solely to past performance and is reasonable relative to the deliverables and payment terms within the arrangement. The guidance in this accounting policy does not require use of the milestone method, and instead provides guidance on one method of accounting that could be used to account for the arrangements that fall within its scope. The effective date of this consensus is for fiscal years beginning after December 15, 2009, with early adoption permitted. The Company is evaluating if the adoption of this standard will have a material impact on its financial statements.

In December 2009, the FASB updated ASC 810, Consolidations, which changes how a reporting entity determines when an entity that is insufficiently capitalized or is not controlled through voting (or similar rights) should be consolidated. The determination of whether a reporting entity is required to consolidate another entity is based on, among other things, the other entity's purpose and design and the reporting entity's ability to direct the activities of the other entity that most significantly impact the other entity's economic performance. SFAS No. 167 will require a reporting entity to provide additional disclosures about its involvement with variable interest entities and any significant changes in risk exposure due to that involvement. A reporting entity will be required to disclose how its involvement with a variable interest entity affects the reporting entity's financial statements. SFAS No. 167 will be effective at the start of a reporting entity's first fiscal year beginning after November 15, 2009, or January 1, 2010, for a calendar year-end entity. Early application is not permitted. The Company is evaluating if the adoption of this standard will have a material impact on its financial statements.





## Note 3. Office Furniture and Equipment

Office furniture and equipment are stated at cost. Depreciation is computed on a straight-line basis over five years. Office and laboratory equipment consisted of the following as of December 31:

|                                     | 2009       | 2008        |
|-------------------------------------|------------|-------------|
| Office equipment                    | \$31,567   | \$124,849   |
| Office furniture                    | 2,889      | 5,756       |
| Laboratory equipment                | -          | 23,212      |
|                                     | 34,456     | 153,817     |
| Less: Accumulated depreciation      | ( 13,284 ) | ( 132,600 ) |
| Office furniture and equipment, net | \$21,172   | \$21,217    |

During 2009 laboratory equipment and office equipment of with an original cost and accumulated depreciation of \$135,092 and \$132,693, respectively, was written off, resulting in a loss on disposal of \$2,399 for 2009. Depreciation expense was \$13,377 and \$10,001 for the years ended December 31, 2009 and 2008, respectively.

## Note 4. Intangible Assets

The following is a summary of intangible assets which consists of licenses and patents:

|                   | Weighted<br>Average<br>Amortization<br>period<br>(years) | Cost        | Accumulated<br>Amortization | Net Book<br>Value |
|-------------------|--|-------------|-----------------------------|-------------------|
| December 31, 2009 |  |             |                             |                   |
| Licenses          | 10.7   | \$462,234   | \$ 170,231                  | \$292,003         |
| Patents           | 6.2  | 2,077,401   | 906,115                     | 1,171,286         |
| Total             | 7.0  | \$2,539,635 | \$ 1,076,346                | \$1,463,289       |
| December 31, 2008 |  |             |                             |                   |
| Licenses          | 11.7   | \$462,234   | \$ 142,994                  | \$319,240         |
| Patents           | 9.0  | 1,870,603   | 771,126                     | 1,099,477         |
| Total             | 9.5  | \$2,332,837 | \$ 914,120                  | \$1,418,717       |

Amortization expense was \$162,227 and \$139,183 in 2009 and 2008, respectively.

Based on the balance of licenses and patents at December 31, 2009, the annual amortization expense for each of the succeeding five years is estimated to be as follows:

| Year | Amortization<br>Expense |
|------|-------------------------|
| 2010 | \$ 178,000              |
| 2011 | 178,000                 |
| 2012 | 178,000                 |
| 2013 | 178,000                 |
| 2014 | 178,000                 |

License fees and royalty payments are expensed annually as incurred as the Company does not attribute any future benefits other than within that period.

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## Note 5. Inventory

In the third quarter of 2008, the Company purchased and recorded inventory for the first time, because of the development of the NPAP programs which provided the Company the ability to sell orBec® for the first time. Inventory consists of finished goods. For the years ended December 31, 2009 and 2008 the Company also recorded an allowance for excess inventory of \$150,000 and \$100,000, respectively.

## Note 6. Income Taxes

Deferred tax assets consisted of the following as of December 31:

|  | 2009         | 2008         |
|--|--------------|--------------|
| Net operating loss carry forwards                              | \$24,249,000 | \$26,300,000 |
| Orphan drug and research and development credit carry forwards | 3,339,000    | 2,000,000    |
| Other  | 2,312,000    | 3,300,000    |
| Total  | 29,900,000   | 31,600,000   |
| Valuation allowance  | (29,900,000) | (31,600,000) |
| Net deferred tax assets  | \$-          | \$-          |

At December 31, 2009, the Company had net operating loss carry forwards of approximately \$82,000,000 for federal and state tax purposes, portions of which are currently expiring each year until 2029. In addition, the Company had \$3,600,000 of various tax credits that start expiring from December 2009 to December 2029. The Company may be able to utilize their NOLs to reduce future federal and state income tax liabilities. However, these NOLs are subject to various limitations under Internal Revenue Code (“IRC”) Section 382. IRC Section 382 limits the use of NOLs to the extent there has been an ownership change of more than 50 percentage points. In addition, the NOL carryforwards are subject to examination by the taxing authority and could be adjusted or disallowed due to such exams. Although the Company has not undergone an IRC Section 382 analysis, it is possible that the utilization of the NOLs may be limited.

The Company and one or more of its subsidiaries files income tax returns in the U.S. Federal jurisdiction, and various state and local jurisdictions. The Company is no longer subject to income tax assessment for years before 2004. However, since the Company has incurred net operating losses in every tax year since inception, all its income tax returns are subject to examination by the Internal Revenue Service and state authorities for purposes of determining the amount of net operating loss carryforward that can be used to reduce taxable income.

The net change in the valuation allowance for the year ended December 31, 2009 and December 31, 2008 was a decrease of approximately \$1,700,000 and increase of \$1,600,000, respectively, resulting primarily from net operating losses expiring and generated. As a result of the Company’s continuing tax losses, the Company has recorded a full valuation allowance against a net deferred tax asset.

Reconciliations of the difference between income tax benefit computed at the federal and state statutory tax rates and the provision for income tax benefit for the years ended December 31, 2009 and 2008 was as follows:

|   | 2009      | 2008      |
|---|-----------|-----------|
| Income tax loss at federal statutory rate | (34.00 )% | (34.00 )% |
| State taxes, net of federal benefit       | (6.50 )   | (6.50 )   |
| Valuation allowance                       | 40.50     | 40.50     |
| Provision for income taxes (benefit)      | - %       | - %       |



The Company adopted FASB ASC 740-10, Uncertainty in Income Taxes. This standard prescribes a recognition threshold and measurement attribute for the financial statement recognition and measurement of a tax position taken or expected to be taken in a tax return. The adoption did not have an effect on the consolidated financial statements.

#### Note 7. Shareholders' Equity

##### Preferred Stock

The Company has 5 million authorized shares of preferred stock, none are issued or outstanding.

##### Common Stock

The following items represent transactions in the Company's common stock for the year ended December 31, 2009:

- In 11 separate transactions during 2009, the Company issued an aggregate of 708,989 shares of common stock under its existing Fusion Capital equity facility. The Company received an aggregate of \$115,001 in proceeds which approximated the shares' fair market value on the date of issuance.
- In September 2009, the Company received \$4,390,200 from the completed private placement of common stock and warrants to accredited investors. Under the terms of the agreements, the Company sold 17,352,567 common shares together with five year warrants to purchase up to 8,676,284 shares of the Company's common stock at \$0.278 per share, for an aggregate price of \$4,390,200, or \$0.253 per share, representing the market price as determined by the five-day average closing price of the Company's common stock prior to the date of the agreements. The expiration date of the warrants can be accelerated at the option of the Company if the Company's common stock meets certain price thresholds. The Company would receive additional gross proceeds of approximately \$2,412,000 if they are all exercised. The Company's North American collaboration partner, Sigma-Tau Pharmaceuticals, Inc., led this offering with an investment of \$1 million.
- In August 2009, 569,425 shares of the Company's common stock were issued to the former controller, treasurer and secretary of the Company in partial settlement of certain compensation and severance liabilities pursuant to the employee's employment agreement. The aggregate number of shares is subject to future adjustment for a six month period following the separation date should the market price fall below the original issuance price. The former employee was granted standard piggyback registration rights with respect to those shares. Compensation expense of \$119,579 was recorded in General & Administrative Expense for 2009 related to this issuance, representing the fair market value of the shares at the date of issuance.
- In March 2009, the Company issued 2,500,000 shares of common stock pursuant to the \$400,000 (\$300,000 of which was issued on this date) common stock equity investment agreement with its clinical trials management partner, Numoda Corporation ("Numoda"). These shares were priced at the then current market price of \$0.12 per share. The remaining \$100,000 investment was completed in January 2010 and was paid in cash. The investment follows the collaboration between the Company and Numoda announced in June 2008 and represents partial payment by the Company under its collaboration agreement. The Company recognized \$400,000 of research and development costs during March 2009 as a result of this transaction.
  - In February 2009, the Company entered into a collaboration and supply agreement with Sigma-Tau for the commercialization of orBec®. In connection with the execution of the collaboration agreement, the Company entered into a common stock purchase agreement with Sigma-Tau pursuant to which the Company sold 25,000,000 shares of common stock to Sigma-Tau for \$0.18 per share, representing an aggregate price of \$4,500,000. The purchase price was equal to one

hundred fifty percent (150%) of the average trading price of the Company's common stock over the five trading days prior to closing. As part of the transaction, the Company granted Sigma-Tau certain demand and piggy-back registration rights.

- In January 2009, the Company received \$2,384,200 from the completed private placement of common stock and warrants to accredited investors. Under the terms of the agreement, the Company sold 20,914,035 common shares together with five year warrants to purchase up to 20,914,035 shares of the Company's common stock at \$0.14 per share, for an aggregate price of \$2,384,200, or \$0.114 per share, representing a premium to the Company's common stock market price on the date of the agreements. The expiration date of the warrants can be accelerated if the Company's common stock meets certain price thresholds and the Company would receive additional gross proceeds of approximately \$2,900,000 if they are all exercised.

## Equity Line

In February 2008, the Company entered into a common stock purchase agreement with Fusion Capital Fund II, LLC (“Fusion Capital”). The Fusion Capital equity facility allows the Company to require Fusion Capital to purchase between \$80,000 and \$1.0 million of the Company’s common stock every two business days, up to an aggregate of \$8.0 million over approximately a 25-month period depending on certain conditions, including the quoted market price of the Company’s common stock on such date. As part of the agreement, the Company issued Fusion Capital 1,275,000 shares of common stock as a commitment fee. In connection with the execution of the common stock purchase agreement, Fusion Capital made an initial purchase of 2,777,778 common shares and received a four year warrant to purchase 1,388,889 shares of common stock for \$0.22 per share, representing an aggregate price of \$500,000. The Company issued an additional 75,000 shares of common stock as a commitment fee in connection with this \$500,000 purchase.

If the Company’s stock price exceeds \$0.15, then the amount required to be purchased may be increased under certain conditions as the price of the Company’s common stock increases. The Company cannot require Fusion Capital to purchase any shares of the Company’s common stock on any trading days that the market price of the Company’s common stock is less than \$0.10 per share. Furthermore, for each additional purchase by Fusion, additional commitment shares in commensurate amounts up to a total of 1,275,000 shares will be issued based upon the relative proportion of purchases compared to the total commitment maximum of 18.5 million shares. The total issuance of common stock related to commitment shares for 2008 was 1,369,125 shares, which were issued to Fusion Capital and consisted of 1,275,000 shares as a commitment fee, 75,000 shares as a commitment fee for the \$500,000 invested, and 19,125 shares for the commitment fee shares on the equity line draws totaling \$127,500.

During the year ended December 31, 2008, the Company issued 993,084 shares of common stock under the Fusion Capital equity facility. In connection with these issuances the Company received \$127,500 in proceeds which approximated the shares’ fair market value on the dates of issuance.

## Note 8. Stock Option Plans and Warrants to Purchase Common Stock

### Stock Option Plans

The Amended and Restated 1995 Omnibus Plan is divided into four separate equity programs:

- 1) the Discretionary Option Grant Program, under which eligible persons may, at the discretion of the Plan Administrator, be granted options to purchase shares of common stock,
- 2) the Salary Investment Option Grant Program, under which eligible employees may elect to have a portion of their base salary invested each year in options to purchase shares of common stock,
- 3) the Automatic Option Grant Program, under which eligible nonemployee Board members will automatically receive options at periodic intervals to purchase shares of common stock, and
- 4) the Director Fee Option Grant Program, under which non-employee Board members may elect to have all, or any portion, of their annual retainer fee otherwise payable in cash applied to a special option grant.



The 2005 Equity Incentive Plan (“2005 Plan”) is divided into four separate equity programs:

- 1) the Discretionary Option Grant Program, under which eligible persons may, at the discretion of the Plan Administrator, be issued common stock or granted options to purchase shares of common stock,
- 2) the Salary Investment Option Grant Program, under which eligible employees may elect to have a portion of their base salary invested each year in options to purchase shares of common stock,
- 3) the Automatic Option Grant Program, under which eligible nonemployee Board members will automatically receive options at periodic intervals to purchase shares of common stock, and
- 4) the Director Fee Option Grant Program, under which non-employee Board members may elect to have all, or any portion, of their annual retainer fee otherwise payable in cash applied to a special option grant.

In addition, under the 2005 Plan, the Board may elect to pay certain consultants, directors, and employees in common stock. The 2005 Plan was amended in September 2007 to increase the number of options available under the plan to 20,000,000.

The table below only accounts for transactions occurring as part of the amended 2005 Equity Incentive Plan.

|   | December 31, |              |
|---|--------------|--------------|
|   | 2009         | 2008         |
| Shares available for grant at beginning of year | 3,547,331    | 10,612,961   |
| Options granted                                 | (3,712,500)  | ( 6,800,000) |
| Options forfeited or expired                    | 620,000      | 100,000      |
| Common stock payment for services               | -            | ( 365,630 )  |
| Shares available for grant at end of year       | 454,831      | 3,547,331    |

The total option activity for the 1995 plan and the amended 2005 plan for the years ended December 31, 2009 and 2008 was as follows:

|                              | Options     | Weighted Average<br>Options Exercise<br>Price |
|------------------------------|-------------|---|
| Balance at January 1, 2008   | 10,349,839  | \$ 0.44                                       |
| Granted                      | 6,800,000   | 0.06  |
| Forfeited                    | ( 779,800 ) | 0.81  |
| Balance at December 31, 2008 | 16,370,039  | \$ 0.27                                       |
| Granted                      | 3,712,500   | 0.17  |
| Forfeited                    | ( 771,000 ) | 0.51  |
| Balance at December 31, 2009 | 19,311,539  | \$ 0.24                                       |

In 2009 and 2008 there were no stock option exercises.

The weighted-average exercise price, by price range, for outstanding options at December 31, 2009 was:

| Price Range     | Weighted<br>Average<br>Remaining<br>Contractual<br>Life in<br>Years | Outstanding<br>Options | Exercisable<br>Options |
|-----------------|---|------------------------|------------------------|
| \$0.06-\$0.11   | 8.6   | 7,925,000              | 4,287,500              |
| \$0.14-\$0.22   | 8.8   | 2,062,500              | 1,178,126              |
| \$0.27-\$0.45   | 6.5   | 5,475,000              | 5,250,000              |
| \$0.47-\$0.58   | 6.3   | 3,525,000              | 3,154,692              |
| \$0.74-\$3.94   | 2.8   | 324,039                | 324,039                |
| Total           | 7.5   | 19,311,539             | 14,194,357             |
| Intrinsic Value |   | \$-                    | \$-                    |

Stock options are issued at the market price on the date of issuance. Stock options issued to directors are fully vested upon issuance. Stock options issued to employees generally vest 25% upfront, then 25% each year for a period of three years. Stock options vest over each three month period from the date of issuance to the end of the three year period. These options have a ten year life for as long as the individuals are employees or directors. In general when an employee or director terminates employment the options will expire within six months.

The intrinsic value was calculated as the difference between the Company's common stock closing price on the Over-The-Counter Bulletin Board at December 31, 2009 and the exercise price of the stock option issued multiplied by the number of stock options. The Company's common stock price at December 31, 2009 was \$0.25.

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The Company's share-based compensation for the years ended December 31, 2009 and 2008 was \$579,066 and \$385,616, respectively. At December 31, 2009, the total compensation cost for stock options not yet recognized was approximately \$440,851 and will be expensed over the next three years.

Warrants to Purchase Common stock

Warrant activity for the years ended December 31, 2009 and 2008 was as follows:

|                              | Warrants     | Weighted Average Warrant Exercise Price |
|------------------------------|--------------|---|
| Balance at January 1, 2008   | 29,209,341   | \$0.69                                  |
| Granted                      | 2,079,444    | 0.20                                    |
| Expired                      | (10,938,637) | 1.13                                    |
| Balance at December 31, 2008 | 20,350,148   | \$0.41                                  |
| Granted                      | 32,906,540   | 0.18                                    |
| Expired                      | (10,783,814) | 0.38                                    |
| Balance at December 31, 2009 | 42,472,874   | \$0.24                                  |

During 2009, the Company issued 1,575,000 warrants to purchase common stock shares to consultants in exchange for their services with exercise prices ranging from \$0.10 to \$0.31. Expense charges of \$190,655 were recorded during 2009 to reflect these issuances.

The weighted-average exercise price, by price range, for outstanding warrants at December 31, 2009 was:

| Price Range   | Weighted Average Remaining Contractual Life in Years | Outstanding Warrants | Exercisable Warrants |
|---------------|--|----------------------|----------------------|
| \$0.06-\$0.11 | 3.4  | 1,350,000            | 1,350,000            |
| \$0.12-\$0.14 | 4.0  | 22,014,035           | 22,014,035           |
| \$0.19-\$0.22 | 2.4  | 2,264,445            | 2,264,445            |
| \$0.28-\$0.31 | 4.7  | 9,357,505            | 9,357,505            |
| \$0.51-\$0.63 | .7   | 7,486,889            | 7,486,889            |
| Total         | 3.5  | 42,472,874           | 42,472,874           |

During 2010, warrants to purchase approximately 7,326,783 shares of the Company's common stock will expire.

Note 9. Concentrations

At December 31, 2009 and 2008, the Company had deposits in major financial institutions that exceeded the amount under protection by the Securities Investor Protection Corporation ("SIPC"). Currently we are covered up to \$1,000,000 by the SIPC. The excess amounts at December 31, 2009 and 2008 were approximately \$6,692,000 and \$475,000, respectively.

Note 10. Commitments and Contingencies

The Company has a contractual obligation of approximately \$3.3 million as of December 31, 2009 in connection with a collaboration agreement with Numoda for the execution of its confirmatory Phase 3 clinical trial of orBec® that began in September 2009 and is expected to complete in first half of 2011.

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The Company also has several licensing agreements with consultants and universities, which upon clinical or commercialization success may require the payment of milestones and/or royalties if and when achieved. However, there can be no assurance that clinical or commercialization success will occur.

On April 1, 2009, the Company entered into a sub-lease agreement through March 31, 2012 for office space in Princeton, New Jersey. The Company was required to provide 4 months of rent as a security deposit. The rent for the first 18 months will be approximately \$7,500 per month, or \$17.00 per square foot. This rent increases to approximately \$7,650 per month, or \$17.50 per square foot, for the remaining 18 months.

On April 24, 2008, the Company signed a three year lease for a copier.

Employees with employment contracts have severance agreements that will provide separation benefits from the Company if they are involuntarily separated from employment.

As a result of the above agreements, the Company has future contractual obligations over the next five years as follows:

| Year  | Research and<br>Development | Property and<br>Other Leases | Total        |
|-------|-----------------------------|------------------------------|--------------|
| 2010  | \$ 3,013,640                | \$ 95,398                    | \$ 3,109,038 |
| 2011  | 631,440                     | 92,699                       | 724,139      |
| 2012  | 155,000                     | 22,950                       | 177,950      |
| 2013  | 75,000                      | -                            | 75,000       |
| 2014  | 75,000                      | -                            | 75,000       |
| Total | \$ 3,950,080                | \$ 211,047                   | \$ 4,161,127 |

## Note 11. Operating Segments

The Company maintains two active operating segments: BioTherapeutics and BioDefense. Each segment includes an element of overhead costs specifically associated with its operations. A corporate shared services group responsible for support functions generic to both operating segments is presented separately.

|  | For the Year Ended December 31, |                 |
|--|---------------------------------|-----------------|
|  | 2009                            | 2008            |
| <b>Revenues</b>                              |                                 |                 |
| BioDefense                                   | \$ 1,670,536                    | \$ 2,269,647    |
| BioTherapeutics                              | 1,145,501                       | 40,618          |
| Total  | \$ 2,816,037                    | \$ 2,310,265    |
| <b>Loss from Operations</b>                  |                                 |                 |
| BioDefense                                   | \$ (389,157 )                   | \$ (132,272 )   |
| BioTherapeutics                              | (3,444,838 )                    | (1,556,429 )    |
| Corporate                                    | (2,217,301 )                    | (1,767,123 )    |
| Total  | \$ (6,051,296 )                 | \$ (3,455,824 ) |
| <b>Amortization and Depreciation Expense</b> |                                 |                 |
| BioDefense                                   | \$ 91,420                       | \$ 85,354       |
| BioTherapeutics                              | 77,496                          | 58,829          |
| Corporate                                    | 6,688                           | 5,000           |
| Total  | \$ 175,604                      | \$ 149,183      |
| <b>Interest Income, Net</b>                  |                                 |                 |
| Corporate                                    | \$ 21,920                       | \$ 37,073       |
| <b>Stock-Based Compensation</b>              |                                 |                 |
| BioDefense                                   | \$ 66,434                       | \$ 92,822       |
| BioTherapeutics                              | 144,398                         | 89,346          |
| Corporate                                    | 368,234                         | 203,448         |
| Total  | \$ 579,066                      | \$ 385,616      |
|  | As of December 31,              |                 |
|  | 2009                            | 2008            |
| <b>Identifiable Assets</b>                   |                                 |                 |
| BioDefense                                   | \$ 787,225                      | \$ 1,076,854    |
| BioTherapeutics                              | 784,282                         | 650,179         |
| Corporate                                    | 7,812,775                       | 1,635,702       |
| Total  | \$ 9,384,282                    | \$ 3,362,735    |

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Board of Directors of Soligenix, Inc.

We have audited the accompanying consolidated balance sheets of Soligenix, Inc. (formerly DOR BioPharma, Inc.) and subsidiaries as of December 31, 2009 and 2008 and the related consolidated statements of operations, changes in shareholders' equity and cash flows for the years ended December 31, 2009 and 2008. These consolidated financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these consolidated 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 principals 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 consolidated financial statements referred to above present fairly, in all material respects, the consolidated financial position of the Company at December 31, 2009 and 2008, and the results of its operations and its cash flows for the years ended December 31, 2009 and 2008, in conformity with U.S. generally accepted accounting principles.

/s/ Amper, Politzner & Mattia, LLP

Edison, New Jersey  
March 31, 2010

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PART II  
INFORMATION NOT REQUIRED IN PROSPECTUS

## ITEM 13. Other Expenses of Issuance and Distribution.

The following table sets forth the estimated costs and expenses of the Registrant in connection with the offering described in the registration statement.

|                              |                 |
|------------------------------|-----------------|
| SEC registration fee         | \$261           |
| Legal fees and expenses      | \$21,000        |
| Accounting fees and expenses | \$5,500         |
| Miscellaneous                | \$1,000         |
| <b>TOTAL</b>                 | <b>\$27,761</b> |

## ITEM 14. Indemnification of Directors and Officers.

Section 102(b)(7) of the Delaware General Corporation Law grants the Registrant the power to limit the personal liability of its directors to the Registrant or its stockholders for monetary damages for breach of a fiduciary duty. Article X of the Registrant's Certificate of Incorporation, as amended, provides for the limitation of personal liability of the directors of the Registrant as follows:

“A Director of the Corporation shall have no personal liability to the corporation or its stockholders for monetary damages for breach of his fiduciary duty as a Director; provided, however, this Article shall not eliminate or limit the liability of a Director (i) for any breach of the Director's duty of loyalty to the Corporation or its stockholders; (ii) for acts or omissions not in good faith or which involve intentional misconduct or a knowing violation of law; (iii) for the unlawful payment of dividends or unlawful stock repurchases under Section 174 of the General Corporation Law of the State of Delaware; or (iv) for any transaction from which the Director derived an improper personal benefit. If the General Corporation Law is amended after approval by the stockholders of this Article to authorize corporate action further eliminating or limiting the personal liability of directors, then the liability of a director of the Corporation shall be eliminated or limited to the fullest extent permitted by the General Corporation Law of the State of Delaware, as so amended.”

Article VIII of the Registrant's Bylaws, as amended and restated, provide for indemnification of directors and officers to the fullest extent permitted by Section 145 of the Delaware General Corporation Law.

The Registrant has a directors' and officers' liability insurance policy.

The above discussion is qualified in its entirety by reference to the Registrant's Certificate of Incorporation and Bylaws.

## ITEM 15. Recent Sales of Unregistered Securities.

During 2008, the Registrant issued 310,860 shares of common stock for services rendered to the Registrant. The shares of common stock were offered in transactions exempt from registration under the Securities Act in reliance upon Rule 506 of Regulation D under Section 4(2) of the Securities Act, as transactions not involving a public offering.



On February 14, 2008, the Registrant entered into a common stock purchase agreement with Fusion Capital. Pursuant to the agreement, as amended, the Registrant has issued 4,746,192 shares of common stock to Fusion Capital (together with a four-year warrant to purchase 1,388,889 shares of common stock and a five-year warrant to purchase 100,000 shares of common stock that are not part of this offering) for total proceeds of \$812,500. Under the terms of the agreement, Fusion Capital received a commitment fee consisting of 1,275,000 shares of common stock upon the execution of the agreement. The Registrant has issued 121,875 additional shares as a pro rata commitment fee in connection with the purchase by Fusion Capital of the \$812,500 of common stock. The Registrant also will issue to Fusion Capital an additional 1,153,125 shares as a commitment fee pro rata as it receives the \$7,687,500 of future funding. Such securities were issued, and will be issued in the future, pursuant to an exemption provided by Section 4(2) of the Securities Act of 1933, as amended, and Rule 506 of Regulation D promulgated thereunder.

During May 2008, the Registrant issued 347,222 shares of common stock at an exercise price of \$0.18 per share to Numoda Corporation for services rendered to the Registrant. The shares of common stock were offered in transactions exempt from registration under the Securities Act in reliance upon Rule 506 of Regulation D under Section 4(2) of the Securities Act, as transactions not involving a public offering.

During June 2008, the Registrant issued warrants to purchase up to 100,000 shares of common stock at an exercise price of \$0.12 per share for services rendered to the Registrant. The warrants were offered in transactions exempt from registration under the Securities Act in reliance upon Rule 506 of Regulation D under Section 4(2) of the Securities Act, as transactions not involving a public offering.

On December 1, 2008, the Registrant issued 16,666,667 shares of common stock in connection with the letter of intent entered into with Sigma-Tau Pharmaceuticals, Inc. for \$1,500,000. Such securities were issued pursuant to an exemption provided by Section 4(2) of the Securities Act of 1933, as amended, and Rule 506 of Regulation D promulgated thereunder.

During December 2008, the Registrant issued warrants to purchase up to 300,000 shares of common stock at an exercise price of \$0.06 per share to Little Gem Life Sciences Fund, LLC for services rendered to the Registrant. The warrants were offered in transactions exempt from registration under the Securities Act in reliance upon Rule 506 of Regulation D under Section 4(2) of the Securities Act, as transactions not involving a public offering.

On January 20, 2009, the Registrant completed a private placement in which it issued 20,914,035 shares of common stock at \$0.114 per share, and warrants to purchase 20,914,035 shares of common stock, resulting in net proceeds of \$2,384,200. Also, as part of the compensation received for its assistance in the private placement, the placement agent received \$114,000 cash and warrants to purchase an aggregate of 1,000,000 shares of the Registrant's common stock at an exercise price of \$0.14 per share. The shares of common stock were issued in transactions exempt from registration under the Securities Act, in reliance upon Rule 506 of Regulation D under Section 4(2) of the Securities Act, as transactions not involving a public offering.

During January 2009, the Registrant issued warrants to purchase up to 50,000 shares of common stock at an exercise price of \$0.10 per share for services rendered by consultants to the Registrant. The warrants were offered in transactions exempt from registration under the Securities Act in reliance upon Rule 506 of Regulation D under Section 4(2) of the Securities Act, as transactions not involving a public offering.

On February 11, 2009, the Registrant issued warrants to purchase up to 1,000,000 shares of common stock at an exercise price of \$0.11 per share to Dr. George B. McDonald for services rendered to the Registrant. The warrants were offered in transactions exempt from registration under the Securities Act in reliance upon Rule 506 of Regulation D under Section 4(2) of the Securities Act, as transactions not involving a public offering.

On February 11, 2009, the Registrant issued 25 million shares of common stock at an exercise price of \$0.18 per share in connection with the collaboration and supply agreement entered into with Sigma-Tau Pharmaceuticals, Inc. for \$4,500,000. Such securities were issued pursuant to an exemption provided by Section 4(2) of the Securities Act of 1933, as amended, and Rule 506 of Regulation D promulgated thereunder.

During March 2009, the Registrant issued 2,500,000 shares of common stock to Numoda Corporation for services rendered to the Registrant. The shares were offered in a transaction exempt from registration under the Securities Act in reliance upon Rule 506 of Regulation D under Section 4(2) of the Securities Act, as transactions not involving a public offering.

On September 28, 2009, the Registrant completed a private placement in which it issued 17,352,569 shares of common stock at \$0.253 per share, and warrants to purchase 8,676,285 shares of common stock, resulting in net proceeds of \$4,390,200. Also, as part of the compensation received for its assistance in the private placement, the placement agent received \$137,500 cash and warrants to purchase an aggregate of 543,478 shares of the Registrant's common stock at an exercise price of \$0.278 per share. The shares of common stock were issued in transactions exempt from registration under the Securities Act, in reliance upon Rule 506 of Regulation D under Section 4(2) of the Securities Act, as transactions not involving a public offering.

ITEM 16. Exhibits.

- 2.1 Agreement and Plan of Merger, dated May 10, 2006 by and among the Company, Corporate Technology Development, Inc., Enteron Pharmaceuticals, Inc. and CTD Acquisition, Inc. (incorporated by reference to Exhibit 2.1 included in our Registration Statement on Form SB-2 (File No. 333-133975) filed on May 10, 2006).
- 3.1 Amended and Restated Certificate of Incorporation (incorporated by reference to Exhibit 3.1 included in our Quarterly Report on Form 10-QSB, as amended, for the fiscal quarter ended September 30, 2003).
- 3.2 Certificate of Amendment to Amended and Restated Certificate of Incorporation (incorporated by reference to Exhibit 4.2 included in our Registration Statement on Form S-8 (File No. 333-130801) filed on December 30, 2005).
- 3.3 Certificate of Amendment to Amended and Restated Certificate of Incorporation (incorporated by reference to Annex A to our Proxy Statement filed December 12, 2006).
- 3.4 Certificate of Amendment to Amended and Restated Certificate of Incorporation (incorporated by reference to Exhibit 3.4 included in our Registration Statement on Form S-1 (File No. 333-162375) filed on October 7, 2009).
- 3.5 Certificate of Amendment to Amended and Restated Certificate of Incorporation (incorporated by reference to Exhibit 3.1 included in our current report on Form 8-K filed on September 30, 2009).
- 3.6 Certificate of Designations of Series A Junior Participating Preferred Stock (incorporated by reference to Exhibit 3.1 included in our current report on Form 8-K filed on June 22, 2007).
- 3.7 By-laws (incorporated by reference to Exhibit 3.1 included in our Quarterly Report on Form 10-QSB, as amended, for the fiscal quarter ended June 30, 2003).
- 4.1 Form of Warrant issued to each investor in the February 2005 private placement (incorporated by reference to Exhibit 10.2 included in our current report on Form 8-K filed on February 3, 2005).
- 4.2 Form of Warrant issued to each investor in the April 2006 private placement (incorporated by reference to Exhibit 10.2 included in our current report on Form 8-K filed on April 7, 2006).



- 4.3 Form of Warrant issued to finders in connection with the February 2007 private placement (incorporated by reference to Exhibit 4.14 included in our Registration Statement on Form SB-2 filed on April 16, 2007).
- 4.4 Rights Agreement dated June 22, 2007, between the Company and American Stock Transfer & Trust Company, as Rights Agent (incorporated by reference to Exhibit 4.1 included in our current report on Form 8-K filed on June 22, 2007).
- 4.5 Form of Right Certificate (incorporated by reference to Exhibit 4.2 included in our current report on Form 8-K filed on June 22, 2007).
- 4.6 Warrant dated February 14, 2008, issued to Fusion Capital Fund II, LLC (incorporated by reference to Exhibit 4.17 included in our Registration Statement on Form S-1 (File No. 333-149239) filed on February 14, 2008).
- 4.7 Form of Warrant issued to each investor in the February 2008 private placement (incorporated by reference to Exhibit 10.2 in our current report on Form 8-K filed on January 21, 2009).
- 4.8 Form of Warrant issued to each investor in the January 2009 private placement (incorporated by reference to Exhibit 4.18 included in our Registration Statement on Form S-1 (File No. 333-149239) filed on February 14, 2008).
- 4.9 Form of Warrant issued to each investor in the September 2009 private placement (incorporated by reference to Exhibit 10.2 included in our current report on Form 8-K filed on September 29, 2009).
- 4.10 Warrant dated April 19, 2010, issued to Fusion Capital Fund II, LLC. (incorporated by reference to Exhibit 4.10 included in our Registration Statement on Form S-1 (File No. 333-149239) filed on April 20, 2010).
- 5.1 Opinion of Edwards Angell Palmer & Dodge LLP.\*\*\*
- 10.1 Amended and Restated 1995 Omnibus Incentive Plan (incorporated by reference to Exhibit 10.1 included in our Quarterly Report on Form 10-QSB, as amended, for the fiscal quarter ended September 30, 2003). \*\*
- 10.2 License Agreement between the Company and the University of Texas Southwestern Medical Center (incorporated by reference to Exhibit 10.8 included in our Annual Report on Form 10-KSB, as amended, for the fiscal year ended December 31, 2004).
- 10.3 License Agreement between the Company and Thomas Jefferson University (incorporated by reference to Exhibit 10.9 included in our Annual Report on Form 10-KSB, as amended, for the fiscal year ended December 31, 2004).
- 10.4 License Agreement between the Company and the University of Texas Medical Branch (incorporated by reference to Exhibit 10.10 included in our Annual Report on Form 10-KSB, as amended, for the fiscal year ended December 31, 2004).
- 10.5 Consulting Agreement between the Company and Lance Simpson of Thomas Jefferson University. (incorporated by reference to Exhibit 10.43 included in our Annual Report on Form 10-KSB as amended for the fiscal year ended December 31, 2002).





- 10.6 Employment agreement between the Company and Evan Myriantopoulos dated December 7, 2004 (incorporated by reference to Exhibit 10.17 included in our Annual Report on Form 10-KSB, as amended, for the fiscal year ended December 31, 2004). \*\*
- 10.7 2005 Equity Incentive Plan (incorporated by reference to Appendix D to our Proxy Statement filed December 12, 2005). \*\*
- 10.8 Form S-8 Registration of Stock Options Plan dated December 30, 2005 (incorporated by reference to our registration statement on Form S-8 filed on December 30, 2005).
- 10.9 Employment Agreement, dated as of August 29, 2006, between Christopher J. Schaber, Ph.D., and the Company (incorporated by reference to Exhibit 10.1 included in our current report on Form 8-K filed on August 30, 2006). \*\*
- 10.10 Letter of Intent dated January 3, 2007 by and between the Company and Sigma-Tau Pharmaceuticals, Inc. (incorporated by reference to Exhibit 10.1 included in our current report on Form 8-K filed on January 4, 2007).
- 10.11 Securities Purchase Agreement dated February 7, 2007 by and among the Company and the investors named therein (incorporated by reference to Exhibit 10.1 included in our current report on Form 8-K filed on February 12, 2007).
- 10.12 Registration Rights Agreement dated February 7, 2007 by among the Company and the investors named therein (incorporated by reference to Exhibit 10.2 included in our current report on Form 8-K filed on February 12, 2007).
- 10.13 Letter from Sigma-Tau Pharmaceuticals, Inc. dated February 21, 2007 (incorporated by reference to Exhibit 10.1 included in our current report on Form 8-K filed on February 23, 2007).
- 10.14 Letter dated May 3, 2007 between the Company and Sigma-Tau Pharmaceuticals, Inc. (incorporated by reference to Exhibit 10.1 included in our current report on Form 8-K filed on May 4, 2007).
- 10.15 Employment Agreement dated December 27, 2007, between Christopher J. Schaber, PhD and the Company (incorporated by reference to Exhibit 10.30 included in our Annual Report on Form 10-K for the fiscal year ended December 31, 2008). \*\*
- 10.16 Employment Agreement dated December 27, 2007, between Evan Myriantopoulos and the Company (incorporated by reference to Exhibit 10.31 included in our Annual Report on Form 10-K for the fiscal year ended December 31, 2008). \*\*
- 10.17 Employment Agreement dated December 27, 2007, between James Clavijo, CPA and the Company (incorporated by reference to Exhibit 10.32 included in our Annual Report on Form 10-K for the fiscal year ended December 31, 2008). \*\*
- 10.18 Common Stock Purchase Agreement dated February 14, 2008, between the Company and Fusion Capital Fund II, LLC (incorporated by reference to Exhibit 10.35 included in our Registration Statement on Form S-1 filed on February 14, 2008).
- 10.19

Registration Rights Agreement dated February 14, 2008, between the Company and Fusion Capital Fund II, LLC (incorporated by reference to Exhibit 10.35 included in our Registration Statement on Form S-1 (File No. 333-149239) filed on February 14, 2008).

- 10.20 Letter dated December 1, 2008, between the Company and Sigma-Tau Pharmaceuticals, Inc. (incorporated by reference to Exhibit 10.1 included in our current report on Form 8-K filed on December 1, 2008).
- 10.21 Form of Securities Purchase Agreement between the Company and each investor dated February 14, 2008 (incorporated by reference to Exhibit 10.37 included in our Registration Statement on Form S-1 (File No. 333-149239) filed on February 14, 2008).
- 10.22 Common Stock Purchase Agreement dated January 12, 2009, between the Company and accredited investors (incorporated by reference to Exhibit 10.1 included in our current report on Form 8-K filed on January 21, 2009).
- 10.23 Registration Rights Agreement dated January 12, 2009, between the Company and accredited investors (incorporated by reference to Exhibit 10.3 included in our current report on Form 8-K filed on January 21, 2009).
- 10.24 Registration Rights Agreement dated January 12, 2009, between the Company and accredited investors (incorporated by reference to Exhibit 10.3 included in our current report on Form 8-K filed on January 21, 2009).
- 10.25 Exclusive License Agreement dated November 24, 1998, between Enteron Pharmaceuticals, Inc. and George B. McDonald, M.D. and amendments (incorporated by reference to Exhibit 10.42 included in our Registration Statement on Form S-1 (File No. 333-157322) filed on February 13, 2009).
- 10.26 Collaboration and Supply Agreement dated February 11, 2009, between the Company and Sigma-Tau Pharmaceuticals, Inc. (incorporated by reference to Exhibit 10.43 included in our Registration Statement on Form S-1 (File No. 333-157322) filed on February 13, 2009). †
- 10.27 Common Stock Purchase Agreement dated February 11, 2009, between the Company and Sigma-Tau Pharmaceuticals, Inc. (incorporated by reference to Exhibit 10.44 included in our Registration Statement on Form S-1 (File No. 333-157322) filed on February 13, 2009).
- 10.28 Sublease Agreement dated April 1, 2009, between the Company and BioWa, Inc. (incorporated by reference to Exhibit 10.43 included in our Registration Statement on Form S-1/A (File No. 333-157322) filed on April 14, 2009).
- 10.29 Employment Agreement, dated as of July 1, 2009, between Christopher P. Schnittker, CPA and the Company. (incorporated by reference to Exhibit 10.1 included in our current report on Form 8-K filed on July 7, 2009).
- 10.30 Securities Purchase Agreement dated September 23, 2009 among the Company and the investors named therein (incorporated by reference to Exhibit 10.1 included in our current report on Form 8-K filed on September 29, 2009).
- 10.31 Registration Rights Agreement dated September 23, 2009 among the Company and the investors named therein (incorporated by reference to Exhibit 10.3 included in our current report on Form 8-K filed on September 29, 2009).
- 10.32 Letter Agreement dated September 25, 2009 between the Company and BAM Opportunity Fund, L.P. (incorporated by reference to Exhibit 10.32 included in our Registration Statement on Form S-1 (File No.

333-162375) filed on October 7, 2009).

10.33 Letter Agreement dated September 23, 2009 between the Company and Iroquois Master Fund, Ltd. (incorporated by reference to Exhibit 10.32 included in our Registration Statement on Form S-1 (File No. 333-162375) filed on October 7, 2009).

10.34 First Amendment to Common Stock Purchase Agreement dated April 19, 2010 between the Company and Fusion Capital Fund II, LLC. (incorporated by reference to Exhibit 10.34 included in our Registration Statement on Form S-1 (File No. 333-149239) filed on April 20, 2010).

21.1 Subsidiaries of the Company.\*

23.1 Consent of Amper, Politziner & Mattia, LLP, independent registered public accounting firm.\*

23.2 Consent of Edwards Angell Palmer & Dodge LLC (contained in the opinion filed as Exhibit 5.1 hereto).\*\*\*

\* Filed herewith.

\*\* Indicates management contract or compensatory plan.

\*\*\* Previously filed.

† Portions of this exhibit have been omitted pursuant to a request for confidential treatment.

ITEM 17. Undertakings.

(a) The undersigned Registrant hereby undertakes as follows:

1. File, during any period in which it offers or sells securities, a post-effective amendment to this registration statement to:
  - i. Include any prospectus required by section 10(a)(3) of the Securities Act;
  - ii. Reflect in the prospectus any facts or events which, individually or together, represent a fundamental change in the information in the registration statement; and Notwithstanding the forgoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation From the low or high end of the estimated maximum offering range may be reflected in the form of prospects filed with the Commission pursuant to Rule 424(b) if, in the aggregate, the changes in the volume and price represent no more than a 20% change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement.
  - iii. Include any additional or changed material information on the plan of distribution.
2. For determining liability under the Securities Act, treat each post-effective amendment as a new registration statement of the securities offered, and the offering of the securities at that time to be the initial bona fide offering.
3. File a post-effective amendment to remove from registration any of the securities that remain unsold at the end of the offering.
4. For determining liability of the undersigned small business issuer under the Securities Act to any purchaser in the initial distribution of the securities, the undersigned small business issuer undertakes that in a primary offering of securities of the undersigned small business issuer pursuant to this registration statement, regardless of the underwriting method used to sell the securities to the purchaser, if the securities are offered or sold to such purchaser by means of any of the following communications, the undersigned small business issuer will be a seller to the purchaser and will be considered to offer or sell such securities to such purchaser:
  - i. Any preliminary prospectus or prospectus of the undersigned small business issuer relating to the offering required to be filed pursuant to Rule 424;
  - ii. Any free writing prospectus relating to the offering prepared by or on behalf of the undersigned small business issuer or used or referred to by the undersigned small business issuer;
  - iii. The portion of any other free writing prospectus relating to the offering containing material information about the undersigned small business issuer or its securities provided by or on behalf of the undersigned small business issuer; and
  - iv. Any other communication that is an offer in the offering made by the undersigned small business issuer to the purchaser.

(b) Insofar as indemnification for liabilities arising under the Securities Act of 1933 (the "Act") may be permitted to directors, officers and controlling persons of the small business issuer pursuant to the foregoing provisions, or

otherwise, the small business issuer has been advised that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Act and is, therefore, unenforceable.

In the event that a claim for indemnification against such liabilities (other than the payment by the small business issuer of expenses incurred or paid by a director, officer or controlling person of the small business issuer in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the small business issuer will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Securities Act and will be governed by the final adjudication of such issue.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-1 and has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Princeton, State of New Jersey, on the 28th day of April, 2010.

SOLIGENIX, INC.

Date: April 28, 2010

By: /s/ CHRISTOPHER J. SCHABER  
 Christopher J. Schaber  
 Chief Executive Officer and President

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, that each person whose signature appears below constitutes and appoints Christopher J. Schaber and Evan Myrianthopoulos, and each of them, his true and lawful attorneys-in-fact and agents, with full power of substitution and resubstitution, for him and in his name, place and stead in any and all capacities, to sign any or all amendments to this Post-Effective Amendment No. 1 to Registration Statement on Form S-1 (including post-effective amendments), and to file the same, with all exhibits thereto, and other documents in connection therewith with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents full power and authority to do and perform each and every act and thing requisite and necessary to be done in and about the premises, as fully and to all intents and purposes as he might or could do in person, hereby ratifying and confirming that said attorneys-in-fact and agents, or their substitute or substitutes, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Act of 1933, this Registration Statement has been signed by the following persons in the capacities and on the dates indicated.

|     | Signature   | Title   | Date             |
|-----|---|---|------------------|
| By: | /s/ CHRISTOPHER J. SCHABER<br>Christopher J. Schaber, Ph.D. | Chairman , President and Chief Executive Officer<br>(Principal Executive Officer) | April 28, 2010   |
| By: | /s/ EVAN MYRIANTHOPOULOS<br>Evan Myrianthopoulos            | Director and Chief Financial Officer<br>(Principal Financial Officer)             | April 28, 2010   |
| By: | Robert J. Rubin   | Director  | April ____, 2010 |
| By: | Cyrille F. Buhrman  | Director  | April ____, 2010 |
| By: | /s/ GREGG A. LAPOINTE<br>Gregg A. Lapointe                  | Director  | April 28, 2010   |

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By: /s/ CHRISTOPHER P. SCHNITTKER  
Christopher P. Schnittker

Vice President Administration, Controller  
and Secretary  
(Principal Accounting Officer)

April 28, 2010

\* By: /s/ CHRISTOPHER J. SCHABER  
Christopher J. Schaber, Ph.D.  
As Attorney-in-Fact