

MARYLAND LIFE SCIENCES
ADVISORY BOARD

ANNUAL STATUS REPORT
FISCAL YEAR 2009

Per Article 83A, Section 5-2C-03

Submitted by the

Maryland Department of Business and Economic Development

December 2008

Table of Contents

Introduction 3

Composition of the Life Sciences Advisory Board 3

Duties of the Life Sciences Advisory Board**Error! Bookmark not defined.**

Summary of Activities 5

Calendar of Activities 6

Introduction

Maryland is home to more than 370 bioscience companies, one of the fastest growing clusters in the United States. Maryland's private-sector bioscience companies employ approximately 30,000 people with an additional 30,000 workers employed at federal and academic institutions located throughout the State. Maryland ranks second worldwide for initiatives aimed at drawing and retaining biotechnology companies including building research parks, investing public funds, and providing tax incentives.

Much of Maryland's success and competitiveness can be attributed to the State's significant commitment and long-term investment in bioscience infrastructure – totaling more than \$650 million. The recipient of \$7.2 billion in federal research and development obligations annually, Maryland continues to be a leader in per capita spending in the nation.

Maryland was recently ranked second in the nation by the Milken Institute for biopharmaceutical innovation and a leader in Science and Technology. Maryland has also been recognized by Ernst & Young as one of the top three centers for biodefense in the United States.

On May 9, 2007, to assist in maintaining the preeminence of the Maryland life sciences industry, Governor Martin O'Malley signed Senate Bill 104, legislation that established the Maryland Life Sciences Advisory Board (LSAB), into law. On September 18, 2007, the Governor formally announced the members of the LSAB in a ceremony held in Annapolis.

Comprised of 15 members, the LSAB includes the Secretary of Business and Economic Development (DBED), a representative designated by the Maryland Technology Development Corporation (TEDCO), three representatives from federal agencies with life science missions, five representatives from biotechnology businesses in Maryland, four representatives from institutions of higher education, and a member of the general public. Except for the Secretary, the term of a LSAB member is two years. At the end of a term, a member can continue to serve until a successor is appointed.

Composition of the Life Sciences Advisory Board

The composition of the LSAB has remained unchanged since its inception in 2007. The LSAB members are:

Chair: **Mr. Thomas Watkins**, *CEO, Human Genome Sciences, Inc.*

Standing: **Mr. David Edgerley**, *Secretary, DBED*
 Ms. Renée Winsky, *President and Executive Director, TEDCO*

Appointed: **Dr. Norma Allewell**, *Dean, Chemical and Life Sciences,*
 University of Maryland, College Park

Dr. Norka Ruiz Bravo, *Deputy Director,
Extramural Research, National Institutes of Health*

Ms. Francesca Cook, *Vice President of Policy and Government Affairs,
Pharmathene, Inc.*

Dr. Stephen Desiderio, *Director, Institute for Cell Engineering,
Johns Hopkins School of Medicine*

Mr. Lawrence Diamond, *Mid-Atlantic Senior Vice President,
Alexandria Real Estate Equities*

Mr. David Iannucci, *Director, Department of Economic Development,
Baltimore County*

Mr. Philippe Jacon, *President, BD Diagnostic Systems*

Colonel George Korch, *Past Commander,
U.S. Army Medical Research Institute of Infectious Diseases*

Dr. Nina Lamba, *President, CCL Biomedical, Inc.*

Dr. Hercules Pinkney, *Vice President & Provost,
Montgomery College-Germantown*

Dr. David Ramsey, *President, University of Maryland, Baltimore*

Dr. Janet Woodcock, *Deputy Commissioner & Chief Medical Officer,
Food and Drug Administration*

Duties of the Life Science Advisory Board

As directed by statute, the LSAB is tasked with assisting the Maryland Department of Business and Economic Development with the following:

- Develop a comprehensive strategic plan for life sciences in the State of Maryland;
- Promote life sciences research, development, commercialization and manufacturing in Maryland;
- Promote collaboration and coordination among life science organizations in Maryland;
- Promote collaboration and coordination among research institutions of higher education in Maryland;
- Develop a strategy to coordinate state and federal resources to attract private sector investment and job creation in the life sciences;

- Develop a strategy to support federal life sciences facilities located in the state, including support for education, transportation, housing and capital investment needs; and
- Make recommendations to address critical needs in the life sciences, including access to venture capital and capital construction funding.

In performing its duties, the LSAB is to give due consideration to the business, scientific, medical, and ethical aspects of the life sciences industry. The definition of “life sciences” includes the fields of biotechnology, pharmaceuticals, biomedical technologies, life systems technologies, food sciences, environmental sciences, and biomedical devices.

Summary of Activities

The LSAB has engaged Maryland’s bioscience community in an on-going dialogue to stimulate a breadth of discussion about accomplishments and future directions, as well as to solicit viewpoints, expertise, and participation in a series of public forums. There have been eight public meetings of the LSAB held throughout Maryland in various locations, from Montgomery County, Baltimore County, Frederick County, Prince George’s County, and Baltimore City. In addition, two public forums were conducted to solicit input from life science community stakeholders. A public information and resource website for all LSAB meeting agendas and documents can be found at www.choosemaryland.org.

With the help and input of almost 100 working group members from throughout Maryland’s bioscience industry, academic, and federal sectors, the LSAB is developing a comprehensive strategic plan for life sciences. This strategic plan and its recommendations will leverage opportunities or fill specific gaps to ensure Maryland’s ability to advance the development of its robust biosciences environment.

The strategic plan will be announced by the LSAB, in conjunction with the Governor, in early 2009. As such, the LSAB did not release any specific and final recommendations arising from its activities during 2008. The plan will include specific recommendations for action to move Maryland forward toward an even more vibrant bioscience industry in the year 2020 that will create new jobs, drive sustained growth, and generate biomedical innovations for the benefit of humankind. As such, the LSAB did not release any specific and final recommendations during its activities during 2008.

The strategic plan reflects a year-long review by the LSAB to assess and identify actions required to bolster the competitiveness and success of Maryland’s bioscience industry. Also providing assistance and consultation to the LSAB in the areas of benchmarking, core competency analysis, and recommendation development was Battelle, Inc., facilitated through a TEDCO contract.

The LSAB strategic plan is designed to enhance Maryland’s competitiveness and prominence as a global leader in the intense competition in biosciences development by:

- ***Positioning Maryland for leadership in a global bioscience economy*** by fostering more collaborative approaches to engage industry with Maryland's vast bioscience research complex which includes academic research institutions and federal laboratories.
- ***Creation of bioscience workforce opportunities in Maryland*** through focused awareness of science and technology in K-12 combined with career pathway programs across high school, community college, and four-year institutions that enable industry-demand driven workforce development.
- ***Sustaining high quality growth*** of our burgeoning biosciences industry through targeted business development efforts.
- ***Innovation and support of new growth*** by creating a world-class entrepreneurial environment that encourages the start-up and success of innovative new bioscience companies.

Calendar of Activities for the Life Science Advisory Board

(All meeting agendas, presentations, minutes, and public comments can be found on the LSAB website: www.choosemaryland.org/businessinmd/Biosciences/lsab/lsab.html)

May 8, 2007 ***Legislation Creating the LSAB Signed into Law***

September 14, 2007 ***Governor's Announcement of LSAB Board Members***

October 17, 2007 ***Inaugural Meeting of LSAB***

Human Genome Sciences

Rockville, Maryland

December 11, 2007 ***Second Meeting of the LSAB***

University of Maryland, Baltimore

Baltimore, Maryland

March 14, 2008 ***Third Meeting of the LSAB***

USDA Agricultural Research Center

Beltsville, Maryland

April 24, 2008 ***First Public Forum***

University of Maryland, Shady Grove

Rockville, Maryland

May 2, 2008 ***Second Public Forum***

The BioPark at the University of Maryland, Baltimore
Life Sciences Conference Center
Baltimore, Maryland

- May 22, 2008** ***Fourth Meeting of the LSAB***
U.S. Army Medical Research Institute of Infectious Diseases
Dalrymple Conference Center
Frederick, Maryland
- June 16, 2008** ***Governor's Announcement of the Maryland Bio2020 Initiative***
Johns Hopkins University
Institute of Cell Engineering
Baltimore, Maryland
- June 26, 2008** ***Fifth Meeting of the LSAB***
University of Maryland, College Park
Biosciences Research Building
College Park, Maryland
- August 25, 2008** ***Sixth Meeting of the LSAB***
Montgomery College, Rockville
Central Administration Building
Rockville, Maryland
- September 24, 2008** ***Seventh Meeting of the LSAB***
University of Maryland, Baltimore County
President's Conference Room
Baltimore, Maryland
- October 29, 2008** ***Eighth Meeting of the LSAB***
Human Genome Sciences
Rockville, Maryland