The National Institutes of Health (NIH) is the nation’s primary medical research agency, supporting research efforts in all 50 states and the District of Columbia.

“Thanks to NIH support, I have been able to spend 24 years at Johns Hopkins University School of Medicine studying how the intestine helps maintain salt balance as part of its digestive and absorptive functions . . . and how that becomes abnormal in diarrheal diseases. This area of research has helped reduce the number of worldwide deaths caused by diarrheal diseases.”

Mark Donowitz, MD, Johns Hopkins University School of Medicine

MARYLAND IS A LEADER IN BIOMEDICAL RESEARCH

- Johns Hopkins placed first in the U.S. News and World Report Best Hospitals ranking for 21 years in a row, and the university received $646 million in NIH grants in FY 2012. Hopkins investigators are developing a test to detect ovarian and endometrial cancer using already collected pap test samples.

- University of Maryland sites were awarded NIH grants totaling $233 million in FY 2012. Scientists at the School of Medicine discovered several molecular targets for preventing muscle loss in Duchenne muscular dystrophy, which could lead new treatments.

- NIH granted combined funding of $71 million in FY 2012 to these three independent research organizations: the Henry M. Jackson Foundation for the Advancement of Military Medicine, Gynecologic Oncology Group, and Hugo Moser Research Institute (Kennedy Krieger).

- The NIH intramural campuses in Bethesda and Frederick employ more than 6,000 scientists that are funded through the NIH intramural budget. Using a mouse model of Down Syndrome, intramural researchers identified a prenatal treatment reduced mental deficits in adulthood.

MARYLAND’S BIOMEDICAL RESEARCH PROFILE

- The Maryland Biotechnology Center, modeled on North Carolina’s successful “Research Triangle,” was created in 2009 to strengthen Maryland’s biomedical science industry and to stimulate the development of commercial technologies from basic scientific discoveries.

- Maryland is home to more than 20 biotechnology incubators and several research parks, which help companies share resources and access cutting-edge equipment and facilities.

NIH FUNDING IN SELECTED MARYLAND DISTRICTS*

<table>
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<tr>
<th>District</th>
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*District funding data is based on districting for the 112th US Congress

BY THE NUMBERS: MARYLAND IN FY 2012*

- $1.598 Billion: NIH funds awarded
  (From FY 2003-12, NIH funding in Maryland totaled $15 billion)
- 133: NIH-funded institutions
- 2,321: NIH grants awarded
- 8: Cong. districts with NIH grants

* http://report.nih.gov/award/
NIH’s MISSION is to seek fundamental knowledge about the nature and behavior of living systems and the application of that knowledge to enhance health, lengthen life, and reduce the burdens of illness and disability.

http://www.nih.gov/about/mission.htm

NIH invests $30.9 billion in medical research to benefit the American people.

More than 80% of NIH funding is distributed through approximately 50,000 competitive grants to more than 300,000 researchers at more than 2,500 universities and other institutions throughout the US.

INVESTMENT IN NIH RESEARCH BENEFITS THE MARYLAND ECONOMY

- Maryland is home to 1,842 bioscience business establishments. From FY 2004-09, NIH awarded $2.0 billion to Maryland companies, and venture capital firms invested an additional $1.7 billion in bioscience firms during this period.
- From 2008-12, Johns Hopkins innovation led to the formation of 59 start-up companies (with five medical device, one therapeutic, and two diagnostic start-ups founded in 2012).
- Maryland residents held 33,257 bioscience industry jobs in 2010. In Maryland, the 2010 average annual wage was $90,336 for bioscience sector workers compared to the private sector average of $49,495.

“I support biomedical research because it creates the foundation for the next generation of drugs and technologies to combat our nation’s health challenges. If we are to conquer chronic diseases such as diabetes, Alzheimer’s, COPD, and mental illness, we must continue to invest in medical research. With medical research inflation at approximately 3.5% per year, by flat funding NIH’s budget, we are actually losing ground in the fight against these diseases.”

U.S. Senator Ben Cardin

NIH SPURS MARYLAND INNOVATION

- Maryland received $41 million in NIH grants in FY 2012 to train the next generation of innovative scientists.
- Seventy-three Maryland businesses received NIH funding totaling $457 million during FY 2012 for the research and development of technologies with potential commercial applications.
- From 2004-09, 3,554 bioscience-related patents were issued to individuals and entities in Maryland, with biochemistry representing the largest category.
- A total of 717 clinical trials were initiated at Maryland institutes in 2009.

1 Battelle/BIO 2012 State Bioscience Industry Development Report
2 NIH Research Portfolio Online Reporting Tools (RePORT)
3 Battelle/BIO 2010 State Bioscience Initiatives Reports
4 Johns Hopkins Technology Transfer, 2012 Annual Report