

Biomedical Research Funding-at-a-Glance **Maryland**



National Institutes of Health Funding for Maryland¹

- In FY2016, Maryland received 2,358 NIH-funded grants through normal appropriations process, totaling \$1,465,624,060.
- This represents an increase of \$979,902,629 from FY2015 and 121 more grants.

National Science Foundation Funding for Maryland²

- In FY2016, NSF provided 537 awards totaling over \$343 million.

NIH Helping Communities

What does NIH funding mean for the Maryland economy?

- In FY2007, each NIH dollar invested in Maryland generated \$2.13 in new state business activity³.
- In FY2016, the NIH supported \$3.407 billion in economic activity and 18,970 jobs⁴.

Life Science Industry Impact⁵

- Maryland has over 500 biotechnology firms with 2,000 life sciences companies.
- It is the largest adult stem cell producer in the world and the first to map the human genome.
- As of 2014, 21,560 individuals were employed in the biotechnology industry with total wages of \$4.05 billion.

Scientific developments made possible through NIH Funding

- Dr. Utpal Pad at the University of Maryland is working to understand *Borrelia burgdorferi*, the bacteria that cause over 300,000 new cases of Lyme disease each year, by pinpointing genetic markers for diagnosis and prevention⁶.
- Johns Hopkins researchers have studied how clumps of TDP-43 protein can cause abnormalities in RNA, leading to the neurodegenerative disorder, amyotrophic lateral sclerosis (ALS). Solving the role that it plays will help “open new pathways to preventing ALS,” the team said⁷.

“Maryland is a leading force in the development and commercialization of new and transformative technologies in the life sciences, an industry that is growing by leaps and bound⁸.”

- Mike Gill, Secretary of Commerce

This state has the nation's highest concentration of employed doctoral scientists and engineers⁵

As of October 2016, there were 14,771 clinical trials in Maryland⁹



¹All information current as of 7/2017, as stated at www.nih.gov

²All information current as of 7/2017, as stated at www.nsf.gov

³In Your Own Backyard: How NIH Funding Helps Your State's Economy, Families USA's Global Health Initiative, June 2008

⁴United for Medical Research Report, NIH by state 2016

⁵Maryland Department of Commerce, Biohealth and Life Sciences in Maryland

⁶UMD Scientist Awarded NIH Grant to Further Lyme Disease Research, Sara Gavin 2014, UMD Right Now

⁷Scientists Report Explanation for Protein Clumps In Autopsy Brain Cells For ALS Patients, Shawna Williams 2015, Johns Hopkins News

⁸O'Shea Appointed By Governor To Serve On Maryland Life Sciences Advisory Board, University Of Maryland

⁹Clinicaltrials.gov, NIH 2016

