Biomedical Research Funding-at-a-Glance Michigan

National Institutes of Health Funding for Michigan\(^1\)
- In FY2016, Michigan received 1,530 NIH-funded grants through normal appropriations process, totaling $669,562,129.
- This represents an increase of $46.8 million from FY2015 and 42 more grants.

National Science Foundation Funding for Michigan\(^2\)
- In FY2016, NSF provided 680 awards totaling over $212 million.

NIH Helping Communities

*What does NIH funding mean for the Michigan economy?*
- In FY2007, each NIH dollar invested in Michigan generated $2.13 in new state business activity\(^3\).
- In FY2016, the NIH supported $1.735 billion in economic activity and 10,817 jobs\(^4\).

*Life Science Industry Impact*
- Michigan employs almost 40,000 people in 1,600 companies in the life sciences industry\(^5\).
- Average annual salary for the industry is $83,482\(^6\).
- Direct employment within the drugs and pharmaceutical sector grew 11 percent to 8,813 positions from 2012 to 2014\(^6\).

Scientific developments made possible through NIH Funding\(^5\)
- University of Michigan completed a study on the factors of ADHD, showing that youth who take stimulation medications are no more at risk than teens without ADHD for substance abuse\(^7\).
- In 2014, Yusuke Nakamura developed a novel anti-cancer therapy targeting T-lymphokine-activated killer cell-originated protein kinase, used to help lung cancer\(^8\).
- Calcium receptor CaSR, in the cell membrane, can lead to a number of diseases including Alzheimer’s and cancer if a mutation occurs. Michigan State University hopes to provide understanding that can assist in the development of receptor-based therapeutics\(^9\).

“The state’s bio-industry must take the initiative in driving the cluster’s future growth. Leading by example... coupled with a long term commitment and greater resources are needed before Michigan can become a top ten state for the biosciences economy”\(^10\).

Michigan ranked number 11 for academic bioscience R&D expenditures\(^10\)

As of October 2016, there were 10,943 clinical trials in Michigan\(^11\)

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\(^{1}\)All information current as of 7/2017, as stated at www.nih.gov
\(^{2}\)All information current as of 7/2017, as stated at www.nsf.gov
\(^{3}\)In Your Own Backyard: How NIH Funding Helps Your State’s Economy, Families USA’s Global Health Initiative, June 2008
\(^{4}\)United for Medical Research Report, NIH by state 2016
\(^{5}\)Michigan’s Life Science Industry is on the Rise, Despite a Tough Climate for Venture Capital Investing in the Sector, Mike Brennan 2012, Mibiz
\(^{6}\)Michigan’s Life Sciences Industry Show’s Growth in Latest BIO Report, Marl Sanchez 2016, Mibiz
\(^{7}\)U-M Study Highlights Multiple Factors of ADHD Medication Use, Jared Wadley 2016, Michigan News
\(^{8}\)Storied History Focus On the Future, University Of Chicago Medicine, Comprehensive Cancer Center
\(^{9}\)Ready to Fight Against Calcium Disorders, Val Osowski 2016, MSU Today
\(^{10}\)Michigan Bio-industry roadmap for Success, MichBio 2016
\(^{11}\)Clinicaltrials.gov, NIH 2016