

# Biomedical Research Funding-at-a-Glance **Michigan**



## National Institutes of Health Funding for Michigan<sup>1</sup>

- 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<sup>2</sup>

- 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<sup>3</sup>.
- In FY2016, the NIH supported \$1.735 billion in economic activity and 10,817 jobs<sup>4</sup>.

### Life Science Industry Impact

- Michigan employs almost 40,000 people in 1,600 companies in the life sciences industry<sup>5</sup>.
- Average annual salary for the industry is \$83,482<sup>6</sup>.
- Direct employment within the drugs and pharmaceutical sector grew 11 percent to 8,813 positions from 2012 to 2014<sup>6</sup>.

## Scientific developments made possible through NIH Funding<sup>5</sup>

- 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<sup>7</sup>.
- In 2014, Yusuke Nakamura developed a novel anti-cancer therapy targeting T-lymphokine-activated killer cell-originated protein kinase, used to help lung cancer<sup>8</sup>.
- 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<sup>9</sup>.

*"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<sup>10</sup>."*

Michigan ranked number 11 for academic bioscience R&D expenditures<sup>10</sup>

As of October 2016, there were 10,943 clinical trials in Michigan<sup>11</sup>



<sup>1</sup>All information current as of 7/2017, as stated at [www.nih.gov](http://www.nih.gov)

<sup>2</sup>All information current as of 7/2017, as stated at [www.nsf.gov](http://www.nsf.gov)

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

<sup>4</sup>United for Medical Research Report, NIH bystate 2016

<sup>5</sup>Michigan's Life Science Industry Is on the Rise, Despite a Tough Climate for Venture Capital Investing in the Sector, Mike Brennan 2012, Mibiz

<sup>6</sup>Michigan's Life Sciences Industry Show's Growth in Latest BIO Report, Marl Sanchez 2016, Mibiz

<sup>7</sup>U-M Study Highlights Multiple Factors of ADHD Medication Use, Jared Wadley 2016, Michigan News

<sup>8</sup>Storied History Focus On the Future, University Of Chicago Medicine, Comprehensive Cancer Center

<sup>9</sup>Ready to Fight Against Calcium Disorders, Val Osowski 2016, MSU Today

<sup>10</sup>Michigan Bio-Industry roadmap for Success, MichBio 2016

<sup>11</sup>Clinicaltrials.gov, NIH 2016

