

# The National Institutes of Health & Michigan

## 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.

*"Our success at securing these [NIH] awards reflects the creativity, expertise and talent our researchers have been able to focus on the myriad health related problems facing our nation. . . We are especially pleased to be able to bring significant funding to Michigan to help build the foundation for the state's long-term economic growth."*

*James O. Woolliscroft, MD, Dean, University of Michigan*

### BY THE NUMBERS:

### MICHIGAN IN FY 2013\*

- \$576 Million:** NIH funding awarded
- \$57 Million:** Sequestration loss (as compared to FY 2012 funding levels)
- 58:** NIH-funded institutions
- 1,460:** NIH grants awarded
- 15:** Congressional districts with NIH grants

\*<http://report.nih.gov/award/>

## IMPROVING MICHIGAN'S HEALTH THROUGH NIH FUNDING

- The University of Michigan received NIH grants totaling \$412 million in FY 2013. Patients with cystic fibrosis can suffer hearing loss due to prolonged use of aminoglycoside-type antibiotics. University researchers identified an aminoglycoside antibiotic, apramycin, that does not damage nerve cells in the ears of mice and is safely used in veterinary medicine.
- NIH also supports research at Wayne State University, which was awarded \$49.5 million in FY 2013. Scientists identified several causes of premature labor during pregnancy, including "silent" infections of the amniotic fluid, which can be detected with newly developed tests and treated.
- Michigan State University received \$49 million in NIH funding in FY 2013. Investigators discovered that platinum has cancer-fighting properties leading to the development in 1978 of the drug cisplatin, which is still one of the world's most widely used cancer drugs.



## NIH GRANT FUNDING IN SELECTED MICHIGAN DISTRICTS

District	Grant total	District	Grant total	District	Grant total	District	Grant total
3	\$6,666,133	8	\$52,767,564	12	\$431,520,411	14	\$2,081,131
7	\$3,467,223	9	\$2,474,159	13	\$71,288,145	15	\$1,726,399

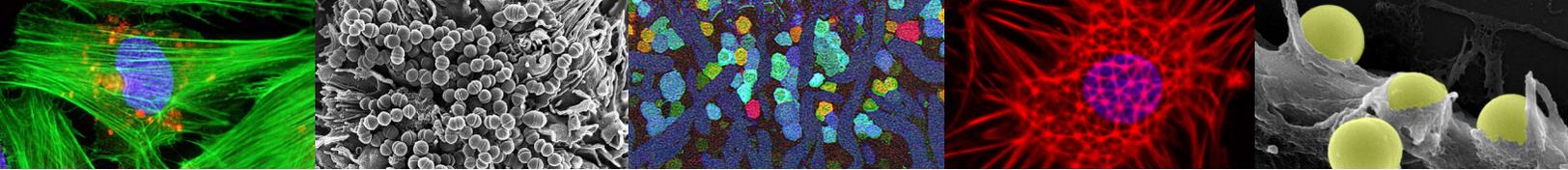
## MICHIGAN'S BIOMEDICAL RESEARCH PROFILE

- Michigan's University Research Corridor, an alliance of Michigan's three largest academic institutions, was established to foster economic growth and development in Michigan by supporting education, innovation, and technology transfer.
- Wayne State is home to the NIH Perinatology Research Branch (PRB). In 2013, NIH renewed the PRB contract for an additional 10 years, keeping perinatal and maternal-fetal medical research in Detroit.



**FASEB**

Federation of American Societies  
for Experimental Biology



# The National Institutes of Health & Michigan

**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 **\$29.2 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 U.S.

## INVESTMENT IN NIH RESEARCH BENEFITS THE MICHIGAN ECONOMY

- Michigan is home to 1,595 bioscience business establishments.<sup>1</sup> From FY 2004-09, NIH awarded \$228 million to Michigan companies,<sup>2</sup> and venture capital firms invested an additional \$440 million in bioscience firms during this period.<sup>3</sup>
- From 2001-13, University of Michigan innovation led to the formation of 126 start-up companies. The university also executed 1,161 licensing agreements during these years.<sup>4</sup>
- Michigan residents held 39,282 bioscience industry jobs in 2010. In Michigan, the 2010 average annual wage was \$76,989 for bioscience sector workers compared to the private sector average of \$43,632.<sup>1</sup>



*"We're pleased that the NIH has [continued to fund] our efforts to support the research efforts of students who otherwise might not be able to take part in such activities. In line with its mission as an urban research university, Wayne State has a long tradition of offering research opportunities to underrepresented students, and this renewed support will allow us to continue to do so."*

*Joseph Dunbar, PhD, Associate Vice President for Research, and Director, Initiative for Maximizing Student Development, Wayne State University*

## NIH SPURS MICHIGAN INNOVATION

- Michigan received \$22 million in NIH grants in FY 2013 to train the next generation of innovative scientists.<sup>2</sup>
- Thirty-five Michigan businesses received NIH funding totaling \$25 million during FY 2013 for the research and development of technologies with potential commercial applications.<sup>2</sup>
- From 2004-09, 1,871 bioscience-related patents were issued to individuals and entities in Michigan, with drugs and pharmaceuticals representing the largest category.<sup>3</sup>
- A total of 505 clinical trials were initiated at Michigan institutes in 2009.<sup>3</sup>



<sup>1</sup> Battelle/BIO 2012 State Bioscience Industry Development Report

<sup>2</sup> NIH Research Portfolio Online Reporting Tools (RePORT)

<sup>3</sup> Battelle/BIO 2010 State Bioscience Initiatives Reports

<sup>4</sup> University of Michigan, Office of Technology Transfer, Facts & Figures



**FASEB**

Federation of American Societies  
for Experimental Biology