

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



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

- In FY2016, Maine received 114 NIH-funded grants through normal appropriations process, totaling \$75,619,398.
- This represents a cut of \$8 million from FY2015 and 8 fewer grants.

## National Science Foundation Funding for Maine<sup>2</sup>

- In FY2015, NSF provided 76 awards totaling over \$26 thousand.

## NIH Helping Communities

### What does NIH funding mean for the Maine economy?

- In FY2007, each NIH dollar invested in Maine generated \$1.97 in new state business activity<sup>3</sup>.
- In FY2016, the NIH supported \$176.7 million in economic activity and 1,308 jobs<sup>4</sup>.

### Life Science Industry Impact<sup>5</sup>

- 220 biotechnology and medical product companies work in the life sciences sector in Maine.
- Over 130,000 workers work in industry, specializing in research, testing, and medical laboratories.
- Since 2007, the overall job growth in drugs and pharmaceuticals, and medical devices and equipment, has outpaced the nation.

## Scientific developments made possible through NIH Funding

- The University of Maine's NSF grant will go towards Gordon Bromley's study of how the East Antarctic Ice Sheets may respond in the future to continued climate change<sup>6</sup>.
- As Maine's groundwater has naturally occurring arsenic in it, the work of Rebecca Sommer at Bates College will shed light on the health implications of the ingestion of tiny amounts of arsenic<sup>7</sup>.
- Peripheral nerve damage is a common side effect to chemotherapy that can lead to tingling, pain, and numbness. Sandra Rieger at the MDI Biological Laboratory is looking to reverse this by studying nerve degeneration in zebra fish, which share similarities to human genes<sup>8</sup>.

*"Maine is a discovery zone, a center of life science and health-care innovation that includes key segments in biomedical technology and device manufacturing and breakthrough research areas that include genetics, genomics, and antibodies<sup>9</sup>."*

Maine has 19 colleges and universities with degree granting programs in the life sciences<sup>5</sup>

As of October 2016, there were 1,611 clinical trials in Maine<sup>10</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 bystate2016

<sup>5</sup>Maine Life Sciences Guide Overview and Directory, Maine International Trade Center 2014

<sup>6</sup>What Happens In Antarctica Does Not Stay In Antarctica, Beth Staples 2015, Umaine News

<sup>7</sup>Biologist Rebecca Sommer Receives \$419,000 NIH Grant for Study of Arsenic Effects, Bates News 2010

<sup>8</sup>Scientist Brings Hope for Chemotherapy Patients, Jack Hilton 2016, MDI Biological Laboratory

<sup>9</sup>Maine's Life Sciences and Healthcare Industries Fuel Partnerships, Growth, Laura Hill 2015, Business Climate

<sup>10</sup>[Clinicaltrials.gov](http://Clinicaltrials.gov), NIH 2016

