

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



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

- In FY2016, Arkansas received 108 NIH-funded grants through normal appropriations process, totaling \$96,652,655.
- This represents an increase of \$57 million from FY2015 and 19 more grants.

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

- In FY2016, NSF provided 59 awards totaling \$24,647,000.

## NIH Helping Communities

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

- In FY2007, each NIH dollar invested in Arkansas generated \$1.97 in new state business activity<sup>3</sup>.
- IN FY2016, the NIH supported \$244.8 million in economic activity and 1,759 jobs<sup>4</sup>.

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

- 5,697 biopharmaceutical industry jobs are supported in Arkansas through 580 businesses<sup>4</sup>.
- The average mean wage of a professional in the life, physical, or social science occupations is \$55,700<sup>5</sup>.
- In 2013 and 2014, state researchers filed 34 patent applications and were awarded 22 provisional and nine full patents<sup>6</sup>.

### Scientific developments made possible through NIH Funding

- Researchers from the Myeloma Institute of Research and Therapy studied an important biological pathway associated with cell growth. This treatment could be used to neutralize cancerous cells<sup>7</sup>.
- Arkansas State University's Dr. Carole Cramer worked to develop therapies to treat osteogenesis imperfecta and other rare lysosomal storage diseases<sup>8</sup>.
- The University of Arkansas was awarded a grant to improve the imaging and earlier detection of chronic wounds and guide treatments, using multi-photon microscopy<sup>9</sup>.

*“While the majority of the bioscience companies in Arkansas are small research and testing laboratories..., the state has a significant base of industries and research laboratories involved in agricultural-related bioscience, a growing biomedical base, and a major employer of medical equipment and supplies<sup>10</sup>.”*

In 2016, Arkansas spent \$219 thousand on bioscience R&D<sup>11</sup>

As of October 2016, there were 4,156 clinical trials underway in Arkansas<sup>12</sup>



<sup>1</sup>All information current as of 5/2016, as stated at [www.nih.gov](http://www.nih.gov)

<sup>2</sup>All information current as of 5/2016, 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>May 2015 state Occupational Employment and Wage Estimates Arkansas, Bureau of Labor Statistics

<sup>6</sup>Arkansas bioscience institute reports strong patent numbers, research funding, Spencer Watson 2015, UAMS

<sup>7</sup>Breakthroughs in cancer treatment develop in Arkansas, Arkansas Economic Development Commission 2016

<sup>8</sup>Arkansas Biosciences Institute Annual Report 2014

<sup>9</sup>University of Arkansas biomedical engineer awarded NIH grant to study chronic wound biomarker, News Medical 2015

<sup>10</sup>Arkansas's biotechnology sector strong, but help needed to continue growth, Business Report 2016

<sup>11</sup>Battelle/BIO State Bioscience Jobs, Investments, and Innovation 2014

<sup>12</sup>Clinicaltrials.gov, NIH 2016

