

# Innovation at Work Michigan



	<p>Total Direct and Indirect Economic Output of the Biopharmaceutical Sector</p> <p><b>\$34.6 billion</b></p>	<p>Total Employment Supported by the Biopharmaceutical Sector</p> <p><b>147,418</b></p>	<p>76%</p> <p>A majority of Americans agree that even if it brings no immediate benefits, basic scientific research that advances the frontiers of knowledge is necessary and should be supported by the federal government.</p>
<p><b>Local Perspective:</b> Cadillac, MI</p>	<p><i>"Medical research is important to me because a cure for Alzheimer's disease is my life's mission. To end the legacy of pain and suffering my family has had to endure many times over."</i></p> <p>Tyler Leightner, 22, Alzheimer's Association advocate</p>	<p>Michiganians 65 and older with Alzheimer's disease in 2016</p> <p><b>180,000</b></p>	<p>Total NIH Award Funding (FY14)</p> <p><b>\$570 million</b></p>

## Research in the Great Lakes State

### *Pfizer, Detroit, MI*

Sickle cell anemia (SCA), a group of inherited blood disorders found predominantly among people of African descent, can cause both chronic and acute pain, organ damage and premature death. Pfizer is conducting phase III clinical trials testing the safety and efficacy of a new drug to treat patients hospitalized due to "pain crises," SCA-related episodes of debilitating pain.

### *University of Michigan, Ann Arbor, MI*

Every year at least 100,000 Americans die from complications following a major surgery. The Agency for Healthcare Research and Quality (AHRQ) is funding research at the University of Michigan to pinpoint the best strategies for quickly recognizing the presence of a post-surgery complication and properly diagnosing and treating it.

### *Van Andel Research Institute (VARI) and Cedars-Sinai, Grand Rapids, MI*

VARI, in collaboration with Cedars-Sinai, has received funding from the National Cancer Institute (NCI) to explore whether changes in the expression levels of genes can illuminate how cancer begins and progresses.

SOURCES: NATIONAL INSTITUTES OF HEALTH, PHARMACEUTICAL RESEARCH AND MANUFACTURES OF AMERICAN (PHRMA), CENTERS FOR DISEASE CONTROL AND PREVENTION, A RESEARCH AMERICA SURVEY OF U.S. ADULTS CONDUCTED IN PARTNERSHIP WITH ZOGBY ANALYTICS IN JUNE 2016, VAN ANDEL RESEARCH INSTITUTE, AGENCY FOR HEALTHCARE RESEARCH AND QUALITY, ALZHEIMER'S ASSOCIATION, CLINICALTRIALS.GOV.