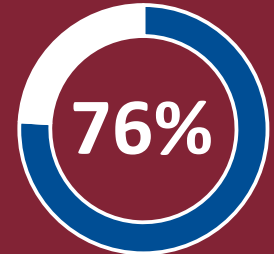


# Innovation at Work Hawaii



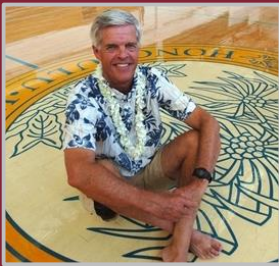
Total Direct and Indirect  
Economic Output of the  
Biopharmaceutical Sector  
**\$880.3 million**

Total Employment  
Supported by the  
Biopharmaceutical Sector  
**4,578**



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.

## Local Perspective: Honolulu, HI



Chris McLachlin, American Heart Association advocate

*"Medical research is important to me, simply because it literally saved my life. If it were not for the research money granted to Dr. Diane Pennica from NIH and the research support from Genentech, TpA would likely not to have been cloned for a very long time. I had a severe stroke 8 years ago and TpA saved my life."*



Hawaiians who died from  
heart disease in 2014  
**2,528**

Total NIH Award Funding  
(FY16)  
**\$54 million**

## Research in the Aloha State

### *University of Hawai'i at Manoa, Honolulu, HI*

National Science Foundation (NSF)-funded researchers at the University of Hawai'i at Manoa are investigating how a specific signaling molecule found in bacteria might help regulate the human microbiome.

### *Eastern Cooperative Oncology Group (ECOG), Aiea, Honolulu, Kailua, and Lihue, HI*

ECOG is conducting phase II clinical trials to test the safety and efficacy of a new medication, dasatinib, to treat localized melanoma. In the U.S., melanoma -- a common form of skin cancer -- results in an estimated 10,000 deaths annually.

### *Hawai'i Biotech, Baylor College of Medicine, and Sabin Vaccine Institute, Honolulu, HI*

In collaboration with Baylor College of Medicine and the Sabin Vaccine Institute, Hawai'i Biotech has received funding from the National Institutes of Health (NIH) to develop a vaccine for chikungunya, a painful and potentially debilitating neglected tropical disease for which there is currently no cure.

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, NATIONAL SCIENCE FOUNDATION, ALZHEIMER'S ASSOCIATION, CLINICALTRIALS.GOV, HAWAII BIOTECH.