

# Innovation at Work Maine

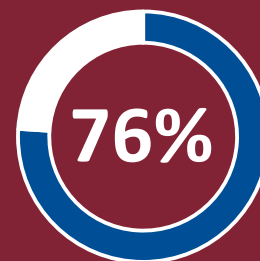


Total Direct and Indirect  
Economic Output of the  
Biopharmaceutical Sector

**\$4.6 billion**

Total Employment  
Supported by the  
Biopharmaceutical Sector

**19,951**



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: Berwick, ME



*"Research is important to me because my son has a rare genetic disorder, PURA Syndrome, and his ability to engage with and learn from his world would be greatly enhanced if there was a cure for his specific seizure type."*

*Heather Bowie, NORD advocate*



Mainers with a Rare  
Disease

**1 in 10**

Total NIH Award Funding  
(FY16)

**\$76 million**

## Research in the Pine Tree State

### *Jackson Laboratories and MedImmune, Bar Harbor, ME*

A National Institutes of Health (NIH)-funded collaboration between Jackson Laboratories and MedImmune researchers are studying whether a strong immune response during your childhood plays a role in adult onset autoimmune disease.

### *Quark Pharmaceuticals and Maine Medical Center, Portland, ME*

Quark Pharmaceuticals is conducting phase II clinical trials at Maine Medical Center to test the safety and efficacy of a treatment to prevent acute kidney injury (AKI) following heart surgery. Up to 39% of high-risk patients suffer an AKI following heart surgery, resulting in a 50% mortality rate compared to the overall 3% mortality rate following heart surgery.

### *University of New England, Biddeford, ME*

Osteoarthritis affects an estimated 27 million Americans. NIH-funded researchers at the University of New England are developing treatments to promote improved motor function for osteoarthritis patients.

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, JACKSON LABORATORIES, CLINICALTRIALS.GOV.