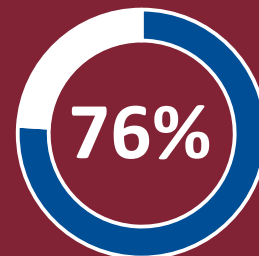


# Innovation at Work Massachusetts



Total Direct and Indirect  
Economic Output of the  
Biopharmaceutical Sector  
**\$67.8 billion**

Total Employment  
Supported by the  
Biopharmaceutical Sector  
**264,661**



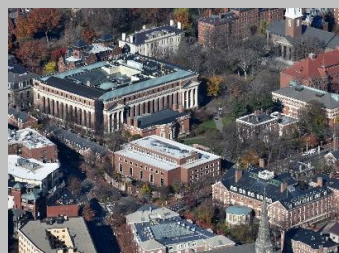
A majority of Americans agree that even if it brings no immediate benefits, basic scientific research that advances the frontiers of knowledge is necessary and should be supported by the federal government.

## Local Perspective: Westwood, MA



*"I support medical progress because I am 1 of 25 million Americans living with a rare disease."*

Max Hasenauer, 19, living with X-linked agammaglobulinemia



Bay Staters with a  
Rare Disease  
**1 in 10**

Total NIH Award Funding  
(FY16)  
**\$2,573 million**

## Research in the Bay State

### *Brigham & Woman's Hospital, Boston, MA*

Brigham & Woman's Hospital has received funding from the Agency for Healthcare Research and Quality (AHRQ) to research ways to improve the transition home from the hospital for patients. Researchers will employ an electronic patient portal to improve disease management and reduce costly hospital readmissions.

### *Sanofi Genzyme, Boston, MA*

Sanofi Genzyme is conducting a phase III clinical trial in Boston researching the efficacy of an approved drug for adults with multiple sclerosis in the treatment of children with certain forms of this debilitating autoimmune disease.

### *University of Massachusetts Amherst, Amherst, MA*

The National Institutes of Health (NIH) is currently funding researchers at UMass Amherst to determine the effect of the gamma-secretase inhibitor, a molecule active in preclinical triple-negative breast cancer, on tumor growth. The findings from this research may provide important new insights on how to best fight tumor growth, a major step towards developing new therapeutic options.

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, AGENCY FOR HEALTHCARE RESEARCH AND QUALITY, CLINICALTRIALS.GOV.