

# FEDERAL BIOLOGICAL RESEARCH FUNDING

## Advancing Healthcare, Innovation, Discovery, and Education

Federal investments in basic research enable remarkable progress in the biological and biomedical sciences, leading to advancements benefitting all Americans. Robust, predictable, and sustained budget increases for science funding agencies are essential for the continuous improvement of our healthcare, technology, economy, and quality of life.

### HEALTHCARE

Federally funded research enhances the treatment and prevention of life-threatening diseases.

Research has contributed to a **68%** decline in U.S. deaths from heart disease between 1969 to 2013.



**1.7 million** Americans survived cancer from 1991 to 2012 as a result of research on prevention, detection, and treatment.



The infant mortality rate dropped by **77%** in the U.S from 1960 to 2013 aided by scientific advances made possible with federally funded research.



### INNOVATION

Federally funded research enables groundbreaking new technologies, products, and services.

More than **30%** of National Institutes of Health funded grants generate scientific papers cited by private sector patents.



The national genomic industry is a substantial contributor to the U.S. economy and was made possible through the federally funded Human Genome Project.

**55 billion** In U.S. tax revenue



**1 trillion** In U.S. economic activity



### DISCOVERY

Federal funding supports the pursuit of scientific inquiry that expands our understanding of nature.

The federal government is one of the largest supporters of scientific discovery.

**\$37 billion** In federal funds went to basic research in 2015.



**44%**

Of the total 2015 funds supporting basic research in the U.S.



Through 2017, **299** Nobel Prize Laureates received funding from the National Institutes of Health or the National Science Foundation.

### EDUCATION

Federal funding supports the training of thousands of young scientists and engineers.

Federal funding provides support for the work of **70,000** graduate students in science and engineering.



The National Science Foundation's INCLUDES Initiative aims to empower underrepresented groups to pursue education and careers in STEM fields.

**69** Pilot programs launched as a part of the INCLUDES Initiative.



**760** Organizations engaged as partners to support the INCLUDES Initiative.



**FASEB**

Federation of American Societies  
for Experimental Biology

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