

# Broad Institute of MIT and Harvard

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## ABOUT THE BROAD INSTITUTE OF MIT AND HARVARD



The Broad Institute of MIT and Harvard aims to improve human health by using genomics to advance our understanding of the biology and treatment of human disease, and to help lay the groundwork for a new generation of therapies. Broad scientists pursue multidisciplinary projects that aim to meet the most critical challenges in biology and medicine, focused on assembling a complete picture of the molecular components of life; defining the biological circuits that underlie cellular responses; unlocking the discoveries hidden inside complex sets of genomic and other biomedical data; developing and de-risking new therapeutic avenues to treat serious, complex human disease by understanding the biological mechanisms; and discovering the molecular basis of major infectious diseases and overcoming antibiotic resistance.



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Founded in 2004 by Eric Lander and philanthropists Eli and Edythe L. Broad, the Broad Institute includes faculty, professional staff, and students from throughout the MIT and Harvard biomedical research communities and beyond, with collaborations spanning more than 100 private and public institutions in more than 40 countries worldwide.

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## NOTABLE FACTS

- The Broad Institute has led international projects to create the databases and tools that have made possible systematic studies of the genetic basis of disease, and shared them freely with the scientific community.
- The Broad Institute has been a flagship center for the genetic and molecular analysis of common diseases — including identifying hundreds of genetic factors contributing to risk for conditions such as type 2 diabetes, heart disease, inflammatory bowel disease, rheumatoid arthritis, multiple sclerosis, autism, schizophrenia, and bipolar disorder.
- The Broad Institute has been a leader in the analysis of cancer genomes, including being a flagship of the Cancer Genome Atlas, identifying more than 100 new genes that underlie cancer, and systematically charting the genetic vulnerabilities of tumor types.
- The Broad Institute has a repository of more than 2.1 million biological samples.

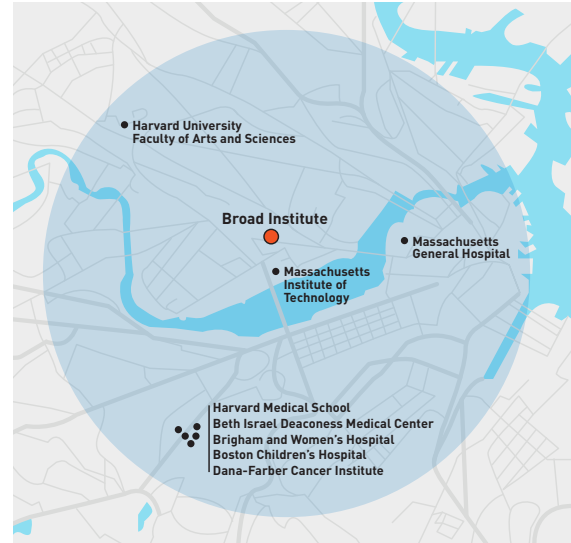
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## COMMUNITY

The Broad Institute is home to a community of more than 4,400 members, including physicians, biologists, chemists, computer scientists, engineers, administrative staff, and representatives of many other disciplines.

The Broad Institute's partner institutions include:

- Beth Israel Deaconess Medical Center
- Boston Children's Hospital
- Brigham and Women's Hospital
- Dana-Farber Cancer Institute
- Harvard University
- Massachusetts General Hospital
- Massachusetts Institute of Technology



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## AREAS OF FOCUS

Broad Institute scientists pursue a wide variety of projects that cut across disciplines and institutions. These projects are fueled, in part, by communities of researchers that come together around shared challenges in major disease areas or scientific disciplines including:

- Cancer
- Cell Circuits
- Chemical Biology and Therapeutics Sciences
- Epigenomics
- Infectious Disease and Microbiome
- Medical and Population Genetics
- Cardiovascular Disease
- Metabolism
- Psychiatric Disease

The Broad Institute is also deeply committed to technology and technology development. In-house teams with the expertise and organization to carry out large-scale projects work closely with Broad scientists and other collaborators to tackle problems that cannot be done in a typical laboratory. These teams include:

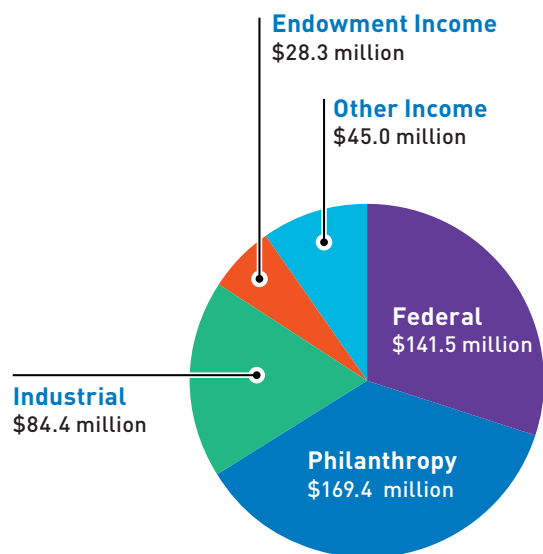
- Genomics
- Imaging
- Data Sciences
- Metabolomics
- Proteomics
- Genetic Perturbation
- Therapeutic Discovery

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## FINANCIAL

### REVENUE BY SOURCE

FY2018 = \$468.6 million



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## SCIENTIFIC PUBLICATIONS

- >9,716 total publications to date
- 1,001 in 2018
- 1,339 in 2017