



Founded in 1890, Cold Spring Harbor Laboratory (CSHL) is a preeminent international research institution, achieving breakthroughs in molecular biology and genetics and enhancing scientific knowledge worldwide.

RESEARCH

United by the goal of alleviating major causes of human suffering, CSHL's 600 researchers and technicians focus on:

- Cancer
- Neuroscience
- Genomics
- Quantitative Biology
- Plant Biology

CSHL ranked #1 in the world for impact in molecular biology and genetics.

Top Institutions in Molecular Biology and Genetics

Published and cited between January 2002 and December 2012

Institution	Citations per paper
1 Cold Spring Harbor Laboratory.....	96.94
2 MIT.....	87.82
3 Salk Institute for Biological Studies.....	70.85
4 Wellcome Trust Sanger Institute.....	70.27
5 Massachusetts General Hospital.....	67.50
6 Rockefeller University.....	62.46
7 Dana Farber Cancer Institute.....	62.22
8 European Molecular Biology Laboratory.....	59.41
9 Brigham and Women's Hospital.....	59.03
10 Memorial Sloan-Kettering Cancer Center.....	58.16



FACTS & FIGURES

- Home to eight Nobel laureates, including James D. Watson, co-discoverer of the DNA double helix.
- National Cancer Institute-designated Cancer Center for over 25 years.
- Incubator for more than 20 biotechnology start-ups.
- Highest rating from Charity Navigator.

BY THE NUMBERS

Annual Operating Budget.....	\$150 million
Endowment.....	\$320 million
Research laboratories.....	52
Postdoctoral fellows.....	160
Graduate students.....	125
Total employees & students.....	1200
Annual Meetings & Courses attendees.....	12,000
Annual DNA Learning Center students.....	30,000



EDUCATION

CSHL is recognized as a pioneer in science education, training professional scientists, students and teachers:

Watson School of Biological Sciences: trains the next generation of scientists through an innovative Ph.D. program that fully funds the doctoral research of each student.

Meetings & Courses Program: attracts 12,000 scientists annually from around the world to learn the latest technologies and share advances in biological research.

Banbury Center: a think-tank that convenes global experts to guide science and public policy.

DNA Learning Center: produces web-based multimedia tools, delivers hands-on learning experiences to 30,000 middle and high school students every year, and trains teachers; over 420,000 students have been taught in N.Y. state alone.

CSHL Press: publishes authoritative materials for the global scientific community, with journals, books and manuals used in over 2,000 academic institutions worldwide.

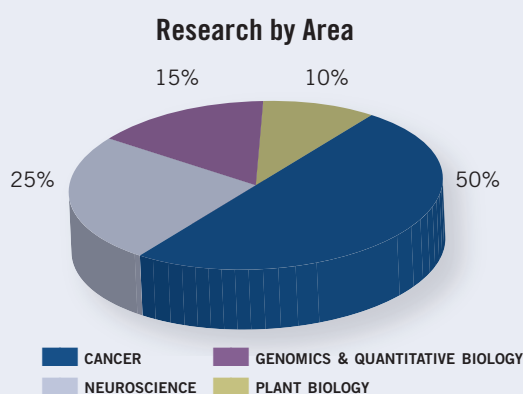
A CENTURY OF SCIENTIFIC BREAKTHROUGHS

With a culture that fosters young investigators and encourages innovation, CSHL thrives from collaboration — among its own researchers as well as with the world's leading research and clinical centers.

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|-------------|--|-------------|---|
| 2012 | Clinical trials initiated for drug to treat fatal childhood disease, Spinal Muscular Atrophy (SMA) | 1977 | RNA splicing mechanism uncovered |
| 2011 | Drug target discovered for lethal form of Acute Myeloid Leukemia (AML) | 1975 | Physical genetic markers employed to map genes |
| 2007 | Spontaneous genetic mutations linked to autism | 1953 | DNA revealed as genetic material of bacterial viruses |
| 1994 | Complete genome replication reconstituted in a test tube | 1951 | "Jumping genes" identified in maize |
| 1988 | Cancer causing & cancer preventing proteins found to interact | 1933 | Isolation of prolactin, a hormone for milk secretion |
| 1981 | First human cancer gene discovered | 1908 | Concept of hybrid vigor revolutionizes modern agriculture |

RESEARCH PORTFOLIO

Over \$100 million of the annual budget invested in research

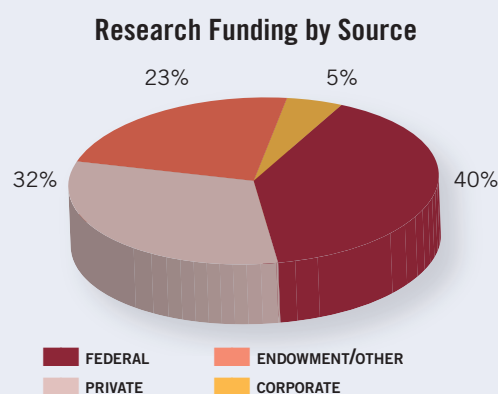


CANCER

CSHL is one of the world's most influential centers for cancer research. Its landmark discoveries range from the development of new genomic technologies to the formulation of breakthrough therapeutic strategies for cancers, including: breast, ovarian, pancreatic, prostate, lung, liver, colon, brain, melanoma, lymphoma and leukemia.

NEUROSCIENCE

Neuroscientists at CSHL are exploring how networks of cells in the brain affect behavior and how disruption of these networks can lead to neurological, psychiatric or neurodegenerative disorders. Research is focused on cognitive processes such as memory, sensory processing and decision-making, and on cognitive disorders such as autism, Alzheimer's, schizophrenia and depression.



GENOMICS

A multi-disciplinary team works on human genetics, functional genomics, small RNA biology and bioinformatics, developing innovative data generation and analysis techniques that have wide-ranging implications for disease diagnosis and therapeutics.

QUANTITATIVE BIOLOGY

The Simons Center for Quantitative Biology is composed of experts in applied mathematics, computer science, theoretical physics and engineering who are working across disciplines to bring new perspectives to problems in human genetics and biology.

PLANT BIOLOGY

Biologists study fundamental mechanisms in plant development and genetics that impact crop productivity, biodiversity and climate change. This work contributes to efforts to boost crop yield and develop biomass as a fuel source.