

NOBEL PRIZES

Two UC Berkeley Nobels in 2020



Jennifer Doudna was awarded the Nobel Prize in Chemistry for the development of CRISPR-Cas9, a genome editing breakthrough that has revolutionized biomedicine. CRISPR-Cas9 allows scientists to rewrite DNA — the code of life — in any organism, including human cells, with unprecedented efficiency and precision. The groundbreaking power and versatility of CRISPR-Cas9 has opened up new and wide-ranging possibilities across biology, agriculture and medicine, including the treatment of thousands of intractable diseases. She is sharing the prize with colleague Emmanuelle Charpentier.

Reinhard Genzel won the 2020 Nobel Prize in Physics for the discovery of a supermassive compact object at the center of our galaxy. He will share half the 2020 Nobel Prize in Physics with UCLA professor Andrea Ghez. Both groups mapped the galactic center with increasing precision using the world's largest telescopes, they provided the most convincing evidence yet of a supermassive black hole at the center of the Milky Way, an extremely heavy, invisible object about 4 million times the mass of our sun.

THEORY OF COMPUTING

Simons Institute Announces New Award

The Simons Institute is a global center for collaborative research in theoretical computer science and its impact on science, mathematics, engineering, and society. A new \$35M award brings the Simons Foundation's support of the Institute to nearly \$100 million. Under the Institute's current director, Turing Award laureate Shafi Goldwasser, the Institute has played a pivotal role in pushing the frontiers in many fields including post-quantum cryptography, the theory of deep learning as well as the nascent field of algorithmic fairness, which can identify the sources and nature of racial bias in a range of settings and recommend interventions.



NEUROSCIENCE

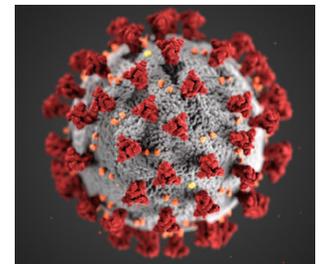
Weill Neurohub

A pioneering research network, the Weill Neurohub unites three premier West Coast public universities to advance treatments for brain diseases. Launched in November 2019 with a \$106 million gift from the Weill Family Foundation, the network brings together neuroscience communities at UCSF, UC Berkeley, and the University of Washington and draws on the power of Lawrence Berkeley National Laboratory and Lawrence Livermore National Laboratory to answer some of the toughest questions about the brain and find effective therapies for the millions of people who suffer from neurological and psychiatric illnesses.

CORONAVIRUS

Campus Rises to COVID-19 Challenge

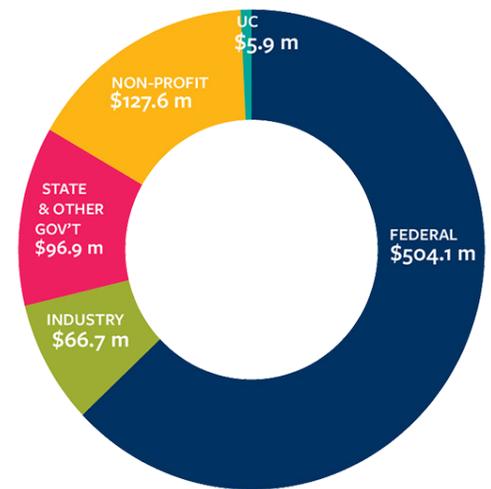
Our faculty are working at the leading edge of COVID-19 research from the basic science to better understand the molecular mechanisms of SARS-CoV-2 to the development of rapid diagnostics and therapeutics. Researchers also focus on a wide range of societal impacts and new approaches for delivering services, especially to the most vulnerable populations.



Research Excellence

Each year, the UC Berkeley campus receives well over half a billion dollars in research support from external sources. In the fiscal year ending June 30, 2020, UC Berkeley attracted \$801.2 million in new research funding. Many of these research awards fund multi-year projects and support expenditures that will be reflected in subsequent years. The federal government provided 51 percent of these sponsored research funds, and California state agencies and other government sources, industry, and the non-profit sector supplied the rest. Of the research funding provided by the U.S. government, the largest contributors are the National Institutes of Health, the National Science Foundation and NASA.

2019/20 Research Funding by Sponsor in Millions



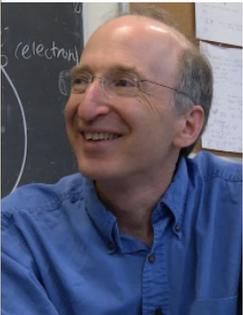
Total Awards = \$801.2 million
Calculated on the basis of project period

Berkeley faculty are leading the charge in many disciplines to make profound changes in the way we understand and interact with the world. Highlights include:



Nobel Laureate
JENNIFER DOUDNA

Jennifer Doudna is best known for her pioneering work on CRISPR/Cas9, a tool for editing genes that offers a potent new approach to understand and treat complex genetic diseases. She received the Breakthrough Prize in 2014.



Nobel Laureate
SAUL PERLMUTTER

Saul Perlmutter received the 2011 Nobel Prize in Physics. He led one of the two research teams that simultaneously discovered the accelerating expansion of the universe. He received the Breakthrough Prize in 2014.



Nobel Laureate
RANDY SCHEKMAN

Randy Schekman received the 2013 Nobel Prize in Physiology or Medicine for his role in revealing the machinery that regulates the transport and secretion of proteins in our cells.



Energy Secretary
JENNIFER GRANHOLM

Former Michigan Governor Jennifer Granholm joined President Joe Biden's Cabinet as Energy Secretary. A UC Berkeley alumna, Granholm taught courses and served as an adjunct professor at the Goldman School of Public Policy.



Treasury Secretary
JANET YELLEN

Janet Yellen was appointed Treasury Secretary in early 2021. She served as Chair of the Federal Reserve from 2014-2018. She was a distinguished faculty member in Business Administration and Economics at UC Berkeley prior to joining the Federal Reserve.

Berkeley Counts Among Its Current Faculty:

- 10** Nobel Laureates
- 3** Recipients of the A.M. Turing Award
- 1** Recipient of the Fields Medal in Mathematics
- 24** Howard Hughes Medical Institute Investigators
- 33** MacArthur Fellows
- 1** National Poet Laureate
- 360** Guggenheim Fellows
- 4** Winners of the Pulitzer Prize
- 15** Recipients of the National Medal of Science
- 251** Fellows of the American Academy of Arts and Sciences
- 90** Members of the National Academy of Engineering
- 144** Members of the National Academy of Sciences
- 7** Awardees of the Presidential Early Career Award for Scientists and Engineers
- 15** Fellows of the National Academy of Inventors
- 49** American Philosophical Society Members