



The California Institute for Quantitative Biosciences (QB3)

is a three-campus partnership established in 2000 with the University of California campuses at Berkeley, San Francisco, and Santa Cruz and industry and venture partners. At Berkeley, QB3 stimulates discovery at the intersection of the physical and biological sciences by promoting multidisciplinary research in world-class facilities, creating innovative educational programs, and fostering industry partnerships.



The Innovative Genomics Initiative (IGI) is dedicated to the enhancement and proliferation of genome editing research and technology in both the academic and commercial research communities. Established in early 2014 at the Li Ka Shing Center for Genomic Engineering at the University of California, Berkeley, the IGI is committed to advancing our understanding of the ways in which genomic information is harnessed to produce complex phenotypes, and our overarching long-term goal is to bring about fundamental change in biological and biomedical research by enabling scientists to read and write in genomes with equal ease.

AUGUST
25
2014

2nd ANNUAL **Re-writing Genomes: A New Era in Genome Engineering**



A one-day symposium hosted by the California Institute for Quantitative Biosciences at Berkeley and the Innovative Genomics Initiative



9:00 a.m. - 5:00 p.m.

245 Li Ka Shing Center for Biomedical and Health Sciences
University of California, Berkeley

SPONSORED BY

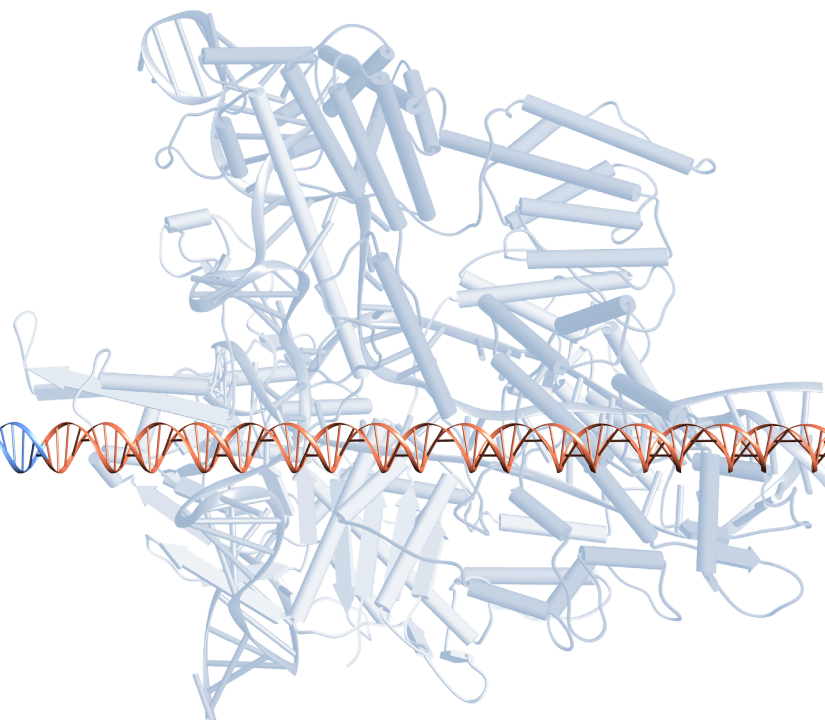
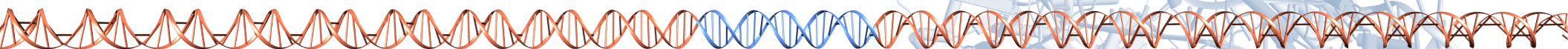


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2nd ANNUAL Re-writing Genomes: A New Era in Genome Engineering

Organized by **Dirk Hockemeyer**, Assistant Professor, Molecular and Cell Biology, UC Berkeley,
and **Jennifer Doudna**, Professor, Molecular and Cell Biology, UC Berkeley, HHMI Investigator



- 8:30 a.m. Doors open**
- 9:00-9:30 Welcome/Introductions**
- 9:30-10:15 KEYNOTE: Rudolf Jaenisch**, Professor, Biology, MIT, *iPS Cell Technology, Gene Editing and Disease Research*
- 10:15-10:45 Keith Joung**, Professor, Molecular Pathology, Massachusetts General Hospital, *Targeted Genome and Epigenome Editing Using CRISPR-Cas and TALE Technologies*
- 10:45-11:15** Break (refreshments & posters in the lobby)
- 11:15-11:45 Philip Gregory**, Chief Scientific Officer and Vice President, Research, Sangamo BioSciences, Inc., *Toward the Clinic — Genome Editing with Zinc Finger Nucleases*
- 11:45-12:15 Dirk Hockemeyer**, Assistant Professor, Molecular and Cell Biology, UC Berkeley, *A Genetic Approach to Investigate Telomere Length Homeostasis in Human Pluripotent Stem Cells*
- 12:15-1:45** Lunch (provided onsite)
- 1:45-2:15 Craig Mello**, Professor, Molecular Medicine, University of Massachusetts Medical School, HHMI Investigator, *CRISPRing C. elegans: The Yeast of Metazoans*
- 2:15-2:45 Feng Zhang**, Assistant Professor, Biological Engineering and Brain and Cognitive Sciences, Broad Institute/MIT, *Development and Applications of CRISPR-Cas9 for Genome Editing*
- 2:45-3:15 Jonathan Weissman**, Professor, School of Medicine, UCSF, HHMI Investigator, *Reversibly Turning Genes On and Off with CRISPRi and CRISPRa*
- 3:15-3:45** Break (refreshments & posters in the lobby)
- 3:45-4:15 George Church**, Professor, Genetics, Harvard Medical School, *Radical Genome Re-writing: Why and How*
- 4:15-4:45 Jennifer Doudna**, Professor, Molecular and Cell Biology, UC Berkeley, HHMI Investigator, *Biology and Biotechnology of RNA-guided DNA Targeting by CRISPR-Cas9*
- 4:45-5:00 Closing Remarks & Poster Prizes**
- 5:00 Reception**