

Iannis Aifantis
New York University

PRIMARY DISCIPLINE Immunology

SECONDARY DISCIPLINE Cancer Biology

RESEARCH FOCUS

Control of hematopoietic stem cell differentiation and transformation



Luís A. Amaral Northwestern University

PRIMARY DISCIPLINE

Computational Biology

SECONDARY DISCIPLINE Bioengineering

RESEARCH FOCUS

Computational systems biology



Peter Baumann Stowers Institute for Medical Research

PRIMARY DISCIPLINE

Molecular Biology

secondary discipline Cell biology

RESEARCH FOCUS

Telomeres and genome instability



James E. Bear University of North Carolina at Chapel Hill

PRIMARY DISCIPLINE
Cell Biology

SECONDARY DISCIPLINE Cancer biology

RESEARCH FOCUS
Actin dynamics and cell motility



Bradley E. Bernstein

Massachusetts General Hospital

PRIMARY DISCIPLINE Cell Biology

secondary discipline Genomics

Epigenetic mechanisms that underlie pluripotency, differentiation and commitment



Daniel I. Bolnick University of Texas at Austin

PRIMARY DISCIPLINE
Evolutionary Biology

secondary discipline Genetics

Ecology and genetics of evolutionary divergence among speciesa



Sean F. Brady Rockefeller University

PRIMARY DISCIPLINE
Chemical Biology

RESEARCH FOCUS
Characterization of small molecules
produce by uncultured bacteria



Martin D. Burke University of Illinois at Urbana-Champaign

PRIMARY DISCIPLINE
Chemical Biology

secondary discipline Medicine

RESEARCH FOCUS

Molecular Prosthetics: small molecules with higher-order, protein-like functions



Howard Y. Chang Stanford University

PRIMARY DISCIPLINE Genetics

SECONDARY DISCIPLINE

Developmental Biology

RESEARCH FOCUS
Functional genomics



Martin J. Cohn University of Florida

PRIMARY DISCIPLINE

Developmental Biology

secondary discipline Genetics

Development and evolution of vertebrate appendages



Jeremy S. Dasen
New York University

PRIMARY DISCIPLINE Neuroscience

secondary discipline
Developmental Biology

RESEARCH FOCUS

Genetic control of
neural circuit assembly



Russell A. DeBose-Boyd University of Texas Southwestern Medical Center at Dallas

PRIMARY DISCIPLINE Biochemistry

SECONDARY DISCIPLINE

Molecular Biology

Sterol-accelerated, ER-associated degradation of HMG CoA reductase



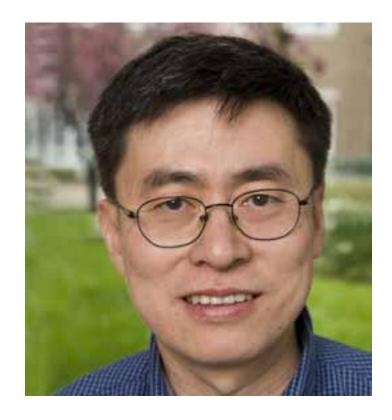
Karl Deisseroth
Stanford University

PRIMARY DISCIPLINE Neuroscience

SECONDARY DISCIPLINE Bioengineering

RESEARCH FOCUS

The development and application of fast optical tools for interrogating neural circuitry



Xinzhong Dong Johns Hopkins University

PRIMARY DISCIPLINE Neuroscience

RESEARCH FOCUS

Molecular and cellular mechanisms of somatosensation of pain, itch, and pleasurey



Michael A. Dyer St. Jude Children's Research Hospital

PRIMARY DISCIPLINE

Developmental Biology

secondary discipline Neuroscience

RESEARCH FOCUS

Coordination of proliferation and differentiation during neurogenesis



Kevin Eggan

Harvard University

PRIMARY DISCIPLINE

Developmental Biology

secondary discipline Neuroscience

The leveraging of stem cells and reprogramming to understand neurodegenetation



Joaquin M. Espinosa University of Colorado

PRIMARY DISCIPLINE

Molecular Biology

SECONDARY DISCIPLINE Cancer Biology

RESEARCH FOCUS

Gene expression control, cancer biology, and gene networks



Marc R. Freeman
University of Massachusetts Medical School

PRIMARY DISCIPLINE Neuroscience

secondary discipline Neuroscience

RESEARCH FOCUS
Glial cell biology, and neuron-glia
interactions in development and disease



Mark A. Frye University of California, Los Angeles

PRIMARY DISCIPLINE Neuroscience

secondary discipline Neuroscience

Cross-modal sensory fusion, sensory-motor integration, and neural circuits



Tamir Gonen
University of Washington

PRIMARY DISCIPLINE Biochemistry

SECONDARY DISCIPLINE
Structural Biology

RESEARCH FOCUS

High-resolution electron cryo-microscopy of membrane proteins, transporters and molecular machines



Eric C. Greene
Columbia University

PRIMARY DISCIPLINE Biochemistry

SECONDARY DISCIPLINE

Surface Chemistry and Nanotechnology

RESEARCH FOCUS

High-throughput single molecule technology and DNA damage recognition/repair



Konrad Hochedlinger Harvard Medical School

PRIMARY DISCIPLINE

Developmental Biology

SECONDARY DISCIPLINE

Genetics

RESEARCH FOCUS

Pluripotency and nuclear reprogramming



Neil Hunter University of California, Davis

PRIMARY DISCIPLINE Genetics

secondary discipline Cancer biology

RESEARCH FOCUS

The mechanism and regulation of homologous recombination



Susan M. Kaech *Yale University* 

Immunology

SECONDARY DISCIPLINE
Developmental biology

RESEARCH FOCUS
Immunological memory



Jeffrey S. Kieft
University of Colorado

PRIMARY DISCIPLINE
Structural Biology

SECONDARY DISCIPLINE Biochemistry

The structure and function of RNAs involved in viral infection and pathogensis



Rob Knight
University of Colorado

PRIMARY DISCIPLINE

Computational Biology

SECONDARY DISCIPLINE
Molecular Biology

RESEARCH FOCUS

Microbial community evolution
and bioinformatics



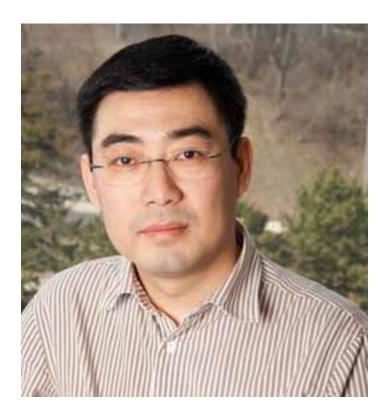
Michael T. Laub

Massachusetts Institute of Technology

PRIMARY DISCIPLINE Microbiology

secondary discipline Genetics

Regulatory networks and signal transduction



Ming Lei University of Michigan

PRIMARY DISCIPLINE
Structural Biology

SECONDARY DISCIPLINE Cancer Biology

RESEARCH FOCUS

The structure and mechanism of telomere regulation and protection



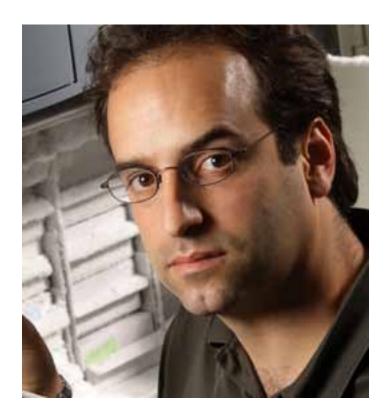
Harmit S. Malik
Fred Hutchinson Cancer Research Center

PRIMARY DISCIPLINE Genetics

secondary discipline Virology

RESEARCH FOCUS

Genetic conflicts within and between genomes



Joshua T. Mendell Johns Hopkins University

PRIMARY DISCIPLINE

Molecular Biology

SECONDARY DISCIPLINE Cancer Biology

The roles of microRNAs in normal physiology and disease



Tirin Moore
Stanford University

PRIMARY DISCIPLINE Neuroscience

secondary discipline Neuroscience

The neural basis of visual perception and cognition in the visual and prefrontal cortex



Kenneth D. Poss *Duke University* 

PRIMARY DISCIPLINE

Developmental Biology

secondary discipline Genetics

Dissecting organ regeneration in zebrafish



Molly Przeworski University of Chicago

PRIMARY DISCIPLINE Genetics

secondary discipline Evolution

RESEARCH FOCUS
Population genetics



Peter W. Reddien

Massachusetts Institute of Technology

PRIMARY DISCIPLINE

Developmental Biology

SECONDARY DISCIPLINE Genetics

Genetic regulation of regeneration and stem cells in planarians

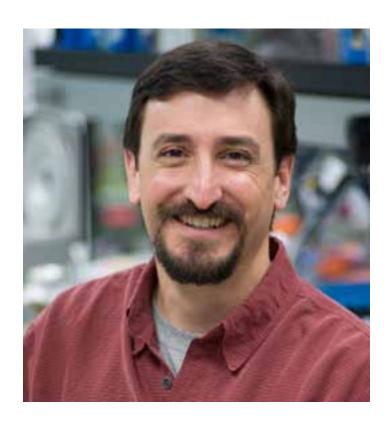


Aviv Regev Massachusetts Institute of Technology

PRIMARY DISCIPLINE
Computational Biology

secondary discipline Genomics

research focus
Systems biology



Christopher M. Sassetti
University of Massachusetts Medical School

PRIMARY DISCIPLINE Microbiology

secondary discipline Genetics

RESEARCH FOCUS
Tuberculosis: pathogenesis, latency, and treatment



Kristin Scott University of California, Berkeley

PRIMARY DISCIPLINE Neuroscience

Taste recognition from sensory detection to behavior



Reuben J. Shaw
Salk Institute for Biological Studies

PRIMARY DISCIPLINE
Cell Biology

SECONDARY DISCIPLINE Cancer Biology

RESEARCH FOCUS

Signaling pathways in cancer and metabolism



Anita Sil University of California, San Francisco

PRIMARY DISCIPLINE

Molecular Biology

secondary discipline Microbiology

RESEARCH FOCUS

Microbial pathogenesis
and host response



Maria Spies
University of Illinois at Urbana-Champaign

PRIMARY DISCIPLINE Biochemistry

SECONDARY DISCIPLINE Biophysics

RESEARCH FOCUS

DNA helicases: molecular mechanisms and integration into DNA repair pathways

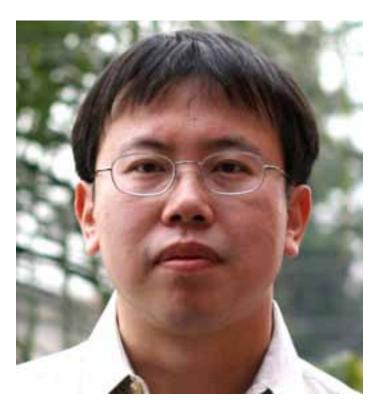


Brent R. Stockwell *Columbia University* 

PRIMARY DISCIPLINE
Chemical Biology

SECONDARY DISCIPLINE Cell Biology

Defining new cell death pathways using small molecules

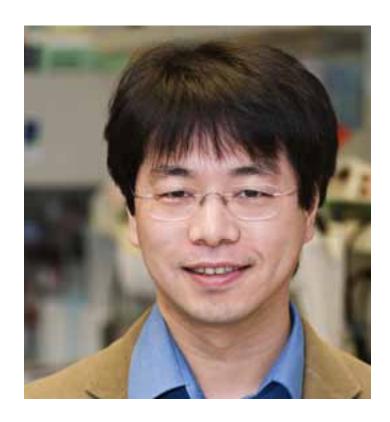


Hui Sun University of California, Los Angeles

PRIMARY DISCIPLINE Biochemistry

secondary discipline Medicine

Novel biochemical pathways for retinoids; mechanisms of blinding diseases



Toshiyasu Taniguchi Fred Hutchinson Cancer Research Center

PRIMARY DISCIPLINE
Cancer Biology

secondary discipline Genetics

DNA repair and chemosensitivity/ resistance of cancer



Joseph W. Thornton *University of Oregon* 

PRIMARY DISCIPLINE

Molecular Biology

secondary discipline Genetics

The evolution of protein structure and function



Sinisa Urban Johns Hopkins University

PRIMARY DISCIPLINE Biochemistry

SECONDARY DISCIPLINE Microbiology

RESEARCH FOCUS

Charting the function and evolution of intramembrane proteolysis



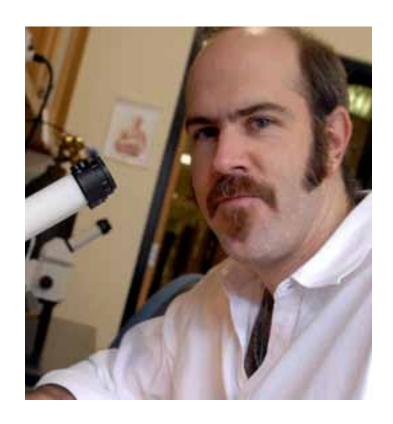
Amy J. Wagers

Harvard Medical School

PRIMARY DISCIPLINE
Stem Cell Biology

RESEARCH FOCUS

Systemic regulation of tissue-specific stem cell function during aging



John B. Wallingford
University of Texas at Austin

PRIMARY DISCIPLINE

Developmental Biology

secondary discipline Cell Biology

RESEARCH FOCUS

Morphogenesis; developmental control of cell behavior in embryos

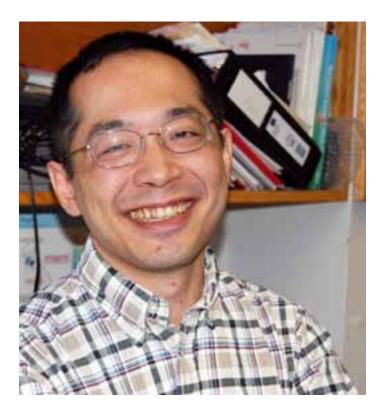


Rachel I. Wilson Harvard Medical School

PRIMARY DISCIPLINE Neuroscience

secondary discipline Neuroscience

Sensory processing in the Drosophila brain



Ryohei Yasuda Duke University

PRIMARY DISCIPLINE Neuroscience

SECONDARY DISCIPLINE Cell Biology

RESEARCH FOCUS

Signal transduction in single synapses during synaptic plasticity



Jennifer A. Zallen Memorial Sloan-Kettering Cancer Center

PRIMARY DISCIPLINE Genetics

SECONDARY DISCIPLINE Cell Biology

Molecular control of polarized cell behavior in the Drosophila embryo