Dr. Bissell is a pioneer in the role of ECM and microenvironmental regulation of gene expression; she changed established paradigms. She earned her degrees in Chemistry and Bacterial Genetics from Harvard. She was Director of all Life Sciences at LBNL, where she is now Distinguished Scientist (one of only three and the only woman). Dr. Bissell has more than 320 publications, is on the editorial board of many journals, including Science, and has given more than 95 named/distinguished lectures. Her awards include the Lawrence medal, the Mellon Award, the AACR’s Eli Lilly/Clowes Award, the first “Innovator Award” of the US DOD for breast cancer, the Brinker Award from Komen Foundation, the Discovery Health Channel Medical Honor and medal, the Pezcoller Foundation–AACR International Award for Cancer Research, and the Inserm 2007 Foreign Award. In 2008, she received the Excellence in Science Award from FASEB, the American Cancer Society’s Medal of Honor and had an award named after her in Portugal. She was elected to AAAS, the IOM, the American Academy of Arts and Sciences, and the American Philosophical Society. She was President of the American Society of Cell Biology and has received honorary doctorates from Paris and Copenhagen.

Marc W. Kirschner, Ph.D.
Professor & Chair, Department of Systems Biology
John Franklin Enders University Professor
Harvard Medical School

Marc W. Kirschner, Ph.D. graduated from Northwestern University in 1966 and received his Ph.D. from the University of California, Berkeley in 1971. Following postdoctoral research at Berkeley and at the University of Oxford, he was appointed as Assistant Professor at Princeton University in 1972 and full Professor in 1978. In 1978, he moved to the Department of Biochemistry and Biophysics at the University of California, San Francisco as a Professor. After fifteen years at the University of California, San Francisco, Dr. Kirschner moved to Harvard Medical School in 1993 to become the founding Chair of the Department of Cell Biology. In 2003, he established the Department of Systems Biology at Harvard Medical School and became its first Chair. He was recently named University Professor, Harvard’s highest professorial distinction.

Dr. Kirschner is a member of the National Academy of Sciences and the American Academy of Arts and Sciences, Foreign Member of the Royal Society of London and the Academia Europaea. He has received numerous honors and awards.
Friday April 30, 2010

9:45am – 10:00am
OPENING REMARKS: Kenneth J. Marians

10:00am – 11:30am
SESSION I: Student & Faculty talks

11:30am – 11:45am
BREAK

11:45am – 1:00pm
SESSION II: Student & Faculty talks

1:00pm – 2:15pm
LUNCH
West Dining Room

2:30pm – 3:35pm
SESSION III: Student & Faculty talks

3:35pm – 3:45pm
BREAK

3:45pm – 4:45pm
KEYNOTE: Mina J. Bissell

4:45pm
FREE TIME

6:30pm – 8:00pm
DINNER: Remarks by Harold Varmus
West Dining Room

8:15pm – 9:30pm
POSTER SESSION

Saturday May 1, 2010

7:00am – 9:30am
BREAKFAST
Carriage Lounge/Main Dining Room

9:30am – 11:10am
SESSION IV: Student & Faculty talks

11:10am – 11:25am
BREAK

11:25am – 12:25am
KEYNOTE: Marc W. Kirschner

12:30pm – 12:50pm
WRAP-UP: Larry Norton

12:50pm – 1:00pm
CLOSING REMARKS: Thomas J. Kelly

1:15pm
LUNCH/FREE TIME

4:00pm
BUS DEPARTS FOR MSK

All Sessions are held at the Conference House

Session I
MODERATOR: Eric S. Alonzo

Mark G. Frattini, Medicine
The Journey from Target Identification to Drug Discovery to Clinical Development: The Cdc7 Story

Dimiter V. Tassev, Pediatrics
Targeting neuroblastoma using a GD2-specific scFv-Fc fusion protein

Nicholas Gauthier, Computational Biology
Combinatorial perturbations of GBM tumorspheres

Eric G. Pamer, Immunology, Medicine
Intestinal commensal microbes and mammalian immune defenses

Session II
MODERATOR: Eric S. Alonzo

Eric S. Alonzo, Immunology
Aligning pathways towards an integrated map of cellular processes

Eric Lai, Developmental Biology
Transcriptional and post-transcriptional control of nervous system development

Shannon F. Yu, Developmental Biology
Cellular and molecular events regulating myoblast fusion in mammals

Yvonne Gruber Mica, Developmental Biology
Directed differentiation and prospective isolation of human embryonic stem cell derived melanocytes

Session III
MODERATOR: Karen E. Hunter

Eric C. Holland, Cancer Biology & Genetics, Neurosurgery
What does it mean to model cancer in mice?

Semanti Mukherjee, Cancer Biology & Genetics
Evaluating statistical power of shared controls in genome wide association studies

Karen E. Hunter, Cancer Biology & Genetics
The role of heparanase in promoting tumor progression in the RIP1-Tag2 model of pancreatic islet carcinogenesis

Keynote
Mina J. Bissell
Genes and the microenvironment: the two faces of breast cancer

Session IV
MODERATOR: John Maciejowski

Simon N. Powell, Molecular Biology, Radiation Oncology
Homologous recombination in human cancers: Lessons from breast cancer development and treatment

James A. Dowdle, Molecular Biology
Mouse SPO11 interacting partners: In search of meiotic double-strand break proteins

Alexandria N. Miller, Structural Biology
Structural studies and characterization of a eukaryotic two-pore domain potassium channel

Jeffery R. Smith, Cell Biology
The role of Rho GTPases in breast cancer invasion and proliferation

John Maciejowski, Molecular Biology
The MPS1 protein kinase controls the cytosolic and kinetochore-resident branches of the spindle checkpoint in human cells

Keynote
Marc W. Kirschner
How the wnt pathway responds to signals

Wrap-up
INTRODUCTION: Kenneth J. Marians
Larry Norton, Medicine
How clinicians and scientists view the world