UC BERKELEY CELL & DEVELOPMENTAL BIOLOGY SPRING SYMPOSIUM

“BIOLOGICAL SIZE CONTROL: FROM ORGANISMS TO ORGANELLES”

TUESDAY, MARCH 22nd
9:00 A.M.-5:30 P.M.
245 LI KA SHING CENTER

9:00 Opening remarks by Rebecca Heald

Session I Chair: Rebecca Heald

9:10-9:50 Pat O’Farrell, University of California, San Francisco
“Constraints that guide developmental growth of animals”

9:50-10:30 Amanda Amodeo, Princeton University
“Cell size in developmental transitions: How do cells measure their nuclear to cytoplasmic ratio to time the mid-blastula transition?”

10:30-10:50 Break (2nd floor lobby of LKS)

Session II Chair: David Bilder

10:50-11:30 Matt Gibson, Stowers Institute
“Coordinating growth and morphogenesis in proliferating epithelia”

11:30-12:10 Petra Levin, Washington University in St. Louis
“Carbon flux through lipid synthesis dictates the capacity of the cell envelope and couples cell size to nutrient availability in a model bacterium”

12:10-1:30 Lunch (not provided)

Session III Chair: David Wake

1:30-2:10 Fernando Camargo, Harvard University & Children’s Hospital Boston
“Clonal analysis of stem cell and progenitor compartment size in mammals”

2:10-2:50 Rachel Mueller, Colorado State University
“Salamander cells are big on transposable elements”

2:50-3:30 Marino Zerial, Max Planck Institute, Dresden
“Principles of liver tissue organization”

3:30-3:50 Break (2nd floor lobby of LKS)

Session IV Chair: Iswar Hariharan

3:50 – 4:30 L. Mahadevan, Harvard University
“Simple physical views on biological size and shape: from organelles to organs”

4:30-5:10 Wallace Marshall, University of California, San Francisco
“How cells control size and proportion”

5:10 Closing remarks by Iswar Hariharan

Reception (2nd floor lobby of LKS)