

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)