Sunday, March 15

3:00 pm	Check-in
6:00 pm	Reception (Lobby)
7:00 pm	Dinner
8:00 pm	Welcome and Opening Remarks
8:05 pm	Keynote Lecture: Monica Bettencourt-Dias , Instituto Gulbenkian de Ciencia <i>Evolution of microtubule organizing centers</i>
8:50 pm	Keynote Lecture: Rebecca Heald, University of California, Berkeley Mechanisms of mitosis and size control in Xenopus
9:35 pm	Refreshments available at Bob's Pub

NOTE: Meals are in the **Dining Room** Talks are in the **Seminar Room** Posters are in the **Lobby**



Monday, March 16

7:30 am	Breakfast (service ends at 8:45am)
9:00 am	Session 1: Population Dynamics and Genetic Evolution Chair: Frances Brodsky
9:00 am	Ginger Armbrust , University of Washington <i>Marine microbial interactions</i>
9:25 am	Nels C. Elde , University of Utah Escape from pathogens through retrotransposition of genes encoding essential cellular functions
9:50 am	Andrew Murray , Harvard University How yeast adapts to a strong genetic perturbation: One function at the time
10:15 am	Michael Lynch , Indiana University Bloomington <i>Mutation, drift, and the origin of subcellular features</i>
10:45 am	Break
11:15 am	Session 2: Molecular Evolution Chair: Holly Goodson
11:15 am	Ajit Varki , University of California, San Diego Evolutionary variations and conflicts in the cell biology of sialic acids
11:40 am	Harmit Malik, HHMI/Fred Hutchinson Cancer Research Center Evolutionary innovations in insect centromeric proteins
12:05 pm	D. Allan Drummond , University of Chicago Stress-triggered RNA/protein granule assembly and its imprint on molecular evolution
12:30 pm	Lunch (services ends at 1pm)



2:00 pm	Session 3: Cell Division I Chair: Joseph Thornton
2:00 pm	Daniel Needleman , Harvard University Genetic architecture of cell division
2:25 pm	Shelley Sazer, Baylor College of Medicine Deciphering the evolutionary history of open and closed mitosis
2:50 pm	Michael B. Eisen, HHMI/University of California, Berkeley <i>tbd</i>
3:15 pm	Break
3:45 pm	Poster Blitz! (poster highlights - 5 min / 3 slides each) Chair: Harmit Malik
	Needhi Bhalla, University of California, Santa Cruz Marcus Dillon, University of New Hampshire Idan Frumkin, Weizmann Institute of Science Victor Hanson-Smith, University of California, San Francisco Victor Luria, Harvard University Mary Munson, University of Massachusetts Medical School Samson Obado, Rockefeller University Berend Snel, Utrecht University Natalia Wesolowska, European Molecular Biology Laboratory (EMBL) Athula Wikramanayake, University of Miami
5:00 pm	Poster Reception
6:30 pm	Dinner
7:45 pm	Session 4: Cell Division II Chair: Nicole King
7:45 pm	Scott Dawson , University of California, Davis <i>Kinetochore proteins not widely distributed in diverse eukaryotic lineages</i>
8:10 pm	Mukund Thattai , National Centre for Biological Sciences Using ancient dynamins to probe the earliest steps of eukaryote evolution
8:35 pm	Abby Dernburg , HHMI/University of California, Berkeley <i>Diversity in meiotic chromosome pairing mechanisms</i>
9:00 pm	Refreshments available at Bob's Pub



Tuesday, March 17

7:30 am	Breakfast (service ends at 8:45am)
9:00 am	Session 5: Membrane Trafficking I Chair: Daniel Needleman
9:00 am	Mark Field, University of Dundee The ongoing evolution of cellular complexity in eukaryotic cells
9:25 am	Frances Brodsky , University of California, San Francisco <i>Evolution of clathrin functions</i>
9:50 am	Margaret S. Robinson, University of Cambridge Adaptor evolution
10:15 am	Break
10:45 am	Session 6: Membrane Trafficking II Chair: Michael Lynch
10:45 am	Joel Dacks, University of Alberta Evolution of Golgi stacking and unstacking in microbial eukaryotes
11:10 am	Natasha Raikhel , University of California, Riverside Small molecule endosidin2 targets evolutionary conserved exo70 proteins to affect exocytosis
11:35 am	Alexander R. Paredez, University of Washington Giardia: A window into evolutionarily deep cellular mechanisms
12:00 pm	Lunch (services ends at 1pm)
1:00 pm	Tour (optional – meet at reception)
2:00 pm	Session 7: Multicellularity Chair: Dyche Mullins
2:00 pm	Nicole King , HHMI/University of California, Berkeley Choanoflagellates and the origin of animal multicellularity



2:25 pm	Joseph Thornton , University of Chicago Mechanisms for the evolution of a protein function required for mitotic spindle orientation and organized multicellularity
2:50 pm	James Nelson, Stanford University Adhesive mechanisms in multicellularity across organisms and scales
3:15 pm	Scott A. Nichols , University of Denver <i>Cellular innovations for adhesion in the animal stem lineage</i>
3:40 pm	Break
4:10 pm	Session 8: Developmental Patterning Chair: Nels Elde
4:10 pm	Wallace Marshall, University of California, San Francisco Regeneration and morphogenesis in single cells
4:35 pm	François Schweisguth , Institut Pasteur Regulation and dynamics of notch signaling
5:00 pm	Reception
6:30 pm	Dinner
8:00 pm	Refreshments available at Bob's Pub



Wednesday, March 18

7:30 am	Breakfast (service ends at 8:45am)
9:00 am	Session 9: Evolution of Organelles I Chair: Harmit Malik
9:00 am	José Pereira Leal, Instituto Gulbenkian de Ciencia Variation and ancestral states in cellular evolution
9:25 am	Joseph Pogliano, University of California, San Diego Evolution of a simplified bipolar spindle
9:50 am	Holly Goodson , University of Notre Dame Using evolutionary perspectives to study cytoskeletal cell biology and vice versa
10:15 am	Break
10:45 am	Session 10: Evolution of Organelles II Chair: Mark Field
10:45 am	Damien P. Devos , Universidad Pablo de Olavide <i>Microbiology's platypus</i>
11:10 am	David S. Roos , University of Pennsylvania Big ideas in small packages: Apicomplexan parasites and the evolution of eukaryotic organelles
11:35 am	Magdalena Bezanilla, University of Massachusetts Amherst Insights into the evolution of cell division plane specification in plants
12:00 pm	Conclusion and Final Remarks
12:15 pm	Lunch & Departure
12:45 pm 1:45 pm 2:45 pm	First shuttle to Dulles Second shuttle to Dulles Last shuttle to Dulles

