
Wednesday, 2 June 2010

- 10:00 - 12:30 **Arrival and Registration**
ATC Registration Counter
- 12:30 - 14:00 **BUFFET**
ATC Foyer
- 14:00 - 14:15 **Welcome and Opening Remarks**
ATC Auditorium
- 14:15 - 16:00 **SESSION: MTs in Cell Division I**
Session Chair: Andrea Musacchio
ATC Auditorium
- 14:15 - 14:40 **Molecular basis of feedback control at the kinetochore-microtubule interface**
Andrea Musacchio
European Institute of Oncology, Italy
- 14:40 - 15:05 **Typical chromosome behavior in human cells**
Alexey Khodjakov
Wadsworth Center, United States of America
- 15:05 - 15:30 **New strategies for uncovering how chromosomes are moved during mitosis**
Charles L. Asbury
University of Washington, United States of America
- 15:30 - 15:45 **Dynamics of GFP-Eg5 in the Mammalian Spindle**
Patricia Wadsworth
University of Massachusetts, United States of America
- 15:45 - 16:00 **Aurora A-dependent recruitment of TACC3 to spindles reveals a complex containing clathrin and a novel +TIP**
Alexander Bird
Max Planck Institute - CBG, Germany
- 16:00 - 16:35 **COFFEE BREAK**
ATC Foyer

- 16:35 - 18:05 **SESSION: MT Organisation I**
Session Chair: Gohta Goshima
ATC Auditorium
- 16:35 - 17:00 **Regulation of microtubule formation in activated mast cells**
Pavel Draber
Institute of Molecular Genetics, Czech Republic
- 17:00 - 17:25 **Mechanisms of microtubule nucleation and growth in cells**
Gohta Goshima
Nagoya University, Japan
- 17:25 - 17:50 **Microtubule organization in Xenopus meiotic spindles**
François Nedelec
EMBL, Germany
- 17:50 - 18:05 **A cellular corset: the sub-pellicular microtubule array of the kinetoplastids**
Johanna Höög
University of Oxford/University of Colorado, United States of America
- 18:05 - 19:35 **DINNER**
EMBL Canteen
- 19:35 - 20:35 **KEYNOTE LECTURE: Timothy J. Mitchison**
- How does a large cells find its center?**
Timothy J. Mitchison
Harvard Medical School, United States of America
- 20:35 - 22:30 **Get Together Reception**
ATC Lounge (top of Helix A)

Thursday, 3 June 2010

- 09:00 - 10:45 **SESSION: MT Structure**
Session Chair: Andreas Hoenger
ATC Auditorium
- 09:00 - 09:25 **Gamma tubulin complexes and the mechanisms of microtubule formation**
David A. Agard
HHMI/UCSF, United States of America
- 09:25 - 09:50 **3-D Cryo-Electron Tomography Studies on Microtubule – MAP interactions in vitro and in situ**
Andreas Hoenger
University of Colorado, MCDB, United States of America
- 09:50 - 10:15 **Microtubule Network 3D Reconstructions in Yeasts**
Claude Antony
EMBL-HD, Germany
- 10:15 - 10:30 **The tubulin structural, nucleotide and microtubule assembly cycles**
Marcel Knossow
CNRS, France
- 10:30 - 10:45 **8Å structure of MAP-stabilized microtubules**
Carolyn Moores
Birkbeck College, London, United Kingdom
- 10:45 - 11:10 **COFFEE BREAK**
ATC Foyer
- 11:10 - 12:40 **SESSION: MT Regulators I**
Session Chair: Carsten Janke
ATC Auditorium
- 11:10 - 11:35 **Toward a functional and molecular understanding of the tubulin tyrosination cycle**
Didier Job
INSERM, France

- 11:35 - 12:00 **Catalysis of the microtubule on-rate is the major parameter regulating the depolymerase activity of MCAK**
Linda Wordeman
University of Washington School of Medicine, United States of America
- 12:00 - 12:25 **Enzymatic mechanism and functions of tubulin polyglutamylation and polyglycylation**
Carsten Janke
Institut Curie, France
- 12:25 - 12:40 **Stathmin and interfacial microtubule inhibitors recognize a naturally curved conformation of tubulin dimers**
Jose Andreu
CSIC, Spain
- 12:40 - 14:00 **LUNCH**
ATC Foyer
- 14:00 - 16:00 **POSTER SESSION I (odd numbers)**
ATC Helix A
- 16:00 - 17:20 **SESSION: MTs in Differentiation and Development I**
Session Chair: Gregg G. Gundersen
ATC Auditorium
- 16:00 - 16:25 **Mitotic motor proteins regulate microtubule behaviors during the growth and navigation of the axon**
Peter Baas
Drexel University College of Medicine, United States of America
- 16:25 - 16:40 **A developmentally regulated two step process generates a non-centrosomal microtubule network during tracheal morphogenesis in Drosophila**
Veronique Brodu
Institut Jacques Monod-CNRS, France
- 16:40 - 17:05 **Microtubule capture mechanisms in migrating cells**
Gregg G. Gundersen
Columbia University, United States of America

- 17:05 - 17:20 **A family of protein deglutamylating enzymes associated with neurodegeneration**
Krzysztof Rogowski
CNRS, France
- 17:20 **Buses to Heidelberg // Beer & snacks poster session**
ATC Helices
- 18:30 - 20:00 **DINNER**
EMBL Canteen
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Friday, 4 June 2010

- 09:00 - 10:45 **SESSION: MT + TIPs**
Session Chair: Michel Steinmetz
ATC Auditorium
- 09:00 - 09:25 **Functional analysis of microtubule plus end binding proteins**
Anna Akhmanova
Erasmus Medical Center, Netherlands
- 09:25 - 09:50 **Phosphoregulation and function of CLASP proteins**
Torsten Wittmann
UCSF, United States of America
- 09:50 - 10:15 **Molecular basis of EB-mediated microtubule tip tracking**
Michel Steinmetz
Paul Scherrer Institut, Switzerland
- 10:15 - 10:30 **Regulation of microtubule dynamics by the novel plus-end tracking kinesin Kif18b**
Marvin Tanenbaum
UMC Utrecht, Netherlands
- 10:30 - 10:45 **Cryo electron tomography on cellular microtubule plus ends**
Roman Koning
LUMC, Netherlands
- 10:45 - 11:10 **COFFEE BREAK**
ATC Foyer

- 11:10 - 12:40 **SESSION: MTs in Cell Division II**
Session Chair: Rebecca Heald
 ATC Auditorium
- 11:10 - 11:35 **Microtubule and membrane dynamics during cytokinetic abscission**
 Daniel W. Gerlich
ETH Zürich, Switzerland
- 11:35 - 12:00 **Katanin mediates interspecies spindle length scaling in Xenopus**
 Rebecca Heald
University of California, United States of America
- 12:00 - 12:25 **A Kinetochore-Independent Mechanism Drives Anaphase Chromosome Separation during Acentrosomal Meiosis**
 Arshad Desai
Ludwig Institute/UCSD, United States of America
- 12:25 - 12:40 **Reconstitution of kinetochore-microtubule interactions in vivo and in vitro**
 Stefan Westermann
Research Institute of Molecular Pathology IMP, Austria
- 12:40 - 14:00 **LUNCH**
 ATC Foyer
- 14:00 - 16:00 **POSTER SESSION II (even numbers)**
 ATC Helix B
- 16:00 - 17:30 **SESSION: MT Organisation II**
Session Chair: Thomas Surrey
 ATC Auditorium
- 16:00 - 16:25 **Regulation of microtubule (aster) dynamics by 'cortical' dynein**
 Marileen Dogterom
FOM Institute AMOLF, Netherlands
- 16:25 - 16:50 **Motorized self-organization of S. pombe microtubules**
 Robert A. Cross
University of Warwick, United Kingdom

- 16:50 - 17:15 **How mitotic kinesins and antiparallel bundlers determine microtubule organization and dynamics**
Thomas Surrey
EMBL, Germany
- 17:15 - 17:30 **Ase1 brakes kinesin-14-driven microtubule-microtubule sliding in vitro**
Gero Fink
MPI-CBG, Germany
- 17:30 - 18:00 **COFFEE BREAK**
ATC Foyer
- 18:00 - 19:30 **SESSION: MT Regulators II**
Session Chair: Franck Perez
ATC Auditorium
- 18:00 - 18:25 **CLIP-170, GTP-tubulin and the regulation of microtubule dynamic instability**
Franck Perez
Institut Curie / CNRS, France
- 18:25 - 18:50 **Structural basis of the interaction between microtubules and +TIPs**
Isabelle Arnal
CNRS, France
- 18:50 - 19:15 **Regulation of Microtubule Dynamic by Depolymerizing Kinesins and Polymerases**
Jonathon Howard
MPI-CBG, Germany
- 19:15 - 19:30 **Single Molecule Studies of Microtubule Severing Enzymes**
Jennifer Ross
University of Massachusetts Amherst, United States of America
- 19:30 - 23:30 **BBQ and PARTY**
EMBL Canteen and Terrace

Saturday, 5 June 2010

- 09:00 - 10:30 **SESSION: MT Organisation III**
Session Chair: Kenneth E. Sawin
ATC Auditorium
- 09:00 - 09:25 **Mechanotransduction during mitosis: how external forces affect dividing cells**
Matthieu Piel
Institut Curie, France
- 09:25 - 09:50 **Organizing microtubule organizers**
Kenneth E. Sawin
University of Edinburgh, United Kingdom
- 09:50 - 10:15 **Kinetics of Microtubule Assembly**
David Odde
University of Minnesota, United States of America
- 10:15 - 10:30 **Molecular analysis of the microtubule bundling activity of the mitotic microtubule-associated protein, AtMAP65-4**
Marylin Vantard
CNRS, France
- 10:30 - 11:00 **COFFEE BREAK**
ATC Foyer
- 11:00 - 12:45 **SESSION: MTs in Differentiation and Development II**
Session Chair: Anne Ephrussi
ATC Auditorium
- 11:00 - 11:25 **Microtubule mediated membrane organization and cell polarity**
Damian Brunner
EMBL, Germany
- 11:25 - 11:50 **Ran, importins, and ciliary targeting of kinesin motors**
Kristen Verhey
University of Michigan Medical School, United States of America

- 11:50 - 12:15 **Microtubules and motors in oskar RNP transport**
Anne Ephrussi
EMBL, Germany
- 12:15 - 12:30 **A role for the microtubule plus end tracking protein CLASP2 in hematopoietic stem cell maintenance**
Niels Galjart
Erasmus MC, Germany
- 12:30 - 12:45 **Mixed microtubules steer dynein-driven cargo transport into dendrites**
Lukas Kapitein
Erasmus Medical Center, Netherlands
- 12:45 - 14:00 **LUNCH**
EMBL Canteen
- 14:00 - 15:30 **HOT TOPICS SESSION**
Session Chair: Ronald D. Vale
ATC Auditorium
- 14:00 - 14:15 **SLAIN1 and SLAIN2 are novel microtubule plus-end tracking proteins that control microtubule growth in interphase**
Babet van der Vaart
Erasmus Medical Center, Netherlands
- 14:15 - 14:30 **Patronin Regulates the Microtubule Network By Protecting Microtubule Minus Ends**
Sarah Goodwin
University of California, San Francisco, United States of America
- 14:30 - 14:45 **A polarised population of dynamic microtubules mediates homeostatic length control in animal cells**
Remigio Picone
University College London, United Kingdom
- 14:45 - 15:00 **Microtubule Motors in Cell Size Sensing**
Ida Rishal
Weizmann Institute of Science, Israel

- 15:00 - 15:15 **Biochemical Characterization of Cin8, the Kinesin-5 of *Saccharomyces cerevisiae***
 Johanna Roostalu
ZMBH-DKFZ Allianz, Germany
- 15:15 - 15:30 **A novel in vitro assay provides evidence that microtubule motor copy number controls differential mRNA sorting**
 Mamta Amrute
MRC-Laboratory of Molecular Biology, United Kingdom
- 15:30 - 16:00 **COFFEE BREAK**
 ATC Foyer
- 16:00 - 17:30 **SESSION: MT motors**
Session Chair: Michio Tomishige
 ATC Auditorium
- 16:00 - 16:25 **Structure and mechanism of the microtubule motor dynein**
 Stan A. Burgess
University Of Leeds, United Kingdom
- 16:25 - 16:50 **Structural basis for the coordinated processive movement of kinesin**
 Michio Tomishige
Department of Applied Physics, University of Tokyo, Japan
- 16:50 - 17:15 **New microtubule associated proteins involved in mitosis**
 Ronald D. Vale
UCSF, United States of America
- 17:15 - 17:30 **14-3-3 and Aurora B cooperately regulates the clustering of the centralspindlin kinesin-6/RhoGAP complex that is essential for its accumulation to the spindle midzone during cytokinesis**
 Masanori Mishima
Gurdon Institute, University of Cambridge, United Kingdom
- 17:30 - 17:40 **Closing remarks, feedback on conference, proposals for 2012 conference**