Scientific programme

DAY 1: Sunday, August 27, 2017

15:00 - 17:00	Arrival, registration and welcome get-together
17:00	Opening Remarks
17:10 - 20:00	Session 1: Recombination Chair: Daniel Camerini-Otero
17:10 - 17:32	Raphael Mercier , Institute Jean-Pierre Bourgin INRA, France "What limits meiotic crossovers?" (T1)
17:32 - 17:54	Valérie Borde , Institute Curie, CNRS, France "The MutL β complex limits the length of gene conversions in meiosis by interacting with the Mer3/HFM1 helicase" (T2)
18:00 - 18:30	Break
18:30 - 18:52	Monica Colaiacovo , Harvard Medical School, USA "Assessing the effects of germline exposure to environmental toxicants in C. elegans" (T3)
18:52 – 19:14	Silvia Prieler, University of Vienna, Austria "A novel mechanism for meiotic gene conversion" (T4)
19:14 – 19:36	Matt Neale, University of Sussex, UK "Regulation of meiotic recombination by Tell/ATM" (T5)
20:00 - 22:00	Dinner

DAY 2: Monday, August 28, 2017

08:00 - 09:00	Breakfast
09:00 - 13:00	Session 2: Chromosome dynamics and structure Chairs: Michael Klutstein, Ricardo Benavente
09:00 - 09:22	Eric Greene, Columbia University, USA "Single molecule studies of condensin" (T6)
09:22 - 09:44	Leonid Mirny , Massachusetts Institute of Technology, USA "Chromosome folding by loop extrusion" (T7)
09:44 – 10:06	Vaishnavi Ananthanarayanan , Indian Institute of Science, India "Fission yeast Myol facilitates PI(4,5)P2-mediated anchoring of cytoplasmic dynein to the cortex" (T8)
10:06 - 10:28	Alfonso Fernandez-Alvarez, National Institutes of Health, USA "Telomeric control of Nuclear Envelope Disassembly in Meiosis" (T9)
10:30 - 11:15	Coffee break
11:15 - 11:37	Lorant Szekvolgyi , University of Debrecen, Hungary "A Set1C-entric view of meiotic recombination" (T11)
11:37 – 11:59	Kevin Corbett , University of California San Diego, USA <i>"Structural and functional dissection of yeast Hop1"</i> (T12)
11:59 – 12:21	Talia Hatkevich University of North Carolina, USA <i>"An Mcm5 mutation reveals a role for SMC1 enrichment at the centromere in early meiosis"</i> (T13)
12:21 – 12:43	Gerben Vader , Max-Planck-Institute of Molecular Physiology, Germany "CRISPR/dCas9-driven ectopic targeting of kinetochore subunits reveals sufficiency in the local control of meiotic DNA break formation and recombination" (T14)
13:00 - 14:30	Lunch
14:30 - 17:00	Poster session 1a, coffee at 16:00. Odd numbers present.
17:00 - 19:00	Session 3: Spindle Chair: Soni Lacefield
17:00 - 17:22	Nenad Pavin , University of Zagreb, Croatia " <i>"The spindle is chiral due to torques generated by motor proteins</i> " (T16)
17:22 – 17:44	Jan Brugues , Max Planck Institute of Molecular Cell Biology and Genetics, Germany "Autocatalytic microtubule nucleation determines the size and mass of spindles" (T17)
17:44 – 18:06	Sadie Wignall , Northwestern University, USA <i>"Interplay between microtubule bundling and sorting factors ensures acentrosomal spindle stability during C. elegans oocyte meiosis"</i> (T18)
18:06 - 18:28	Hiro Ohkura , University of Edinburgh, UK "Novel mechanisms to form the bipolar spindle only around chromosomes in oocytes" (T15)
18:28 - 18:50	Anna Kouznetsova, Karolinska Institutet, Sweden "Chromosome dynamics during the second meiotic division" (T27)
19:00 - 20:30	Dinner
20:30 - 22:00	Poster session 1b. Odd numbers continue to present.

DAY 3: Tuesday, August 29, 2017

08:00 - 09:00	Breakfast
09:00 - 13:00	Session 4: Chromosome segregation and aneuploidy Chairs: JoAnne Engebrecht, Rolf Jessberger
09:00 - 09:22	Eva Hoffmann , University of Copenhagen, Denmark "Towards combined gene conversion and crossover maps in the human meiosis" (T20)
09:22 - 09:44	Tomoya Kitajima , RIKEN Center for Developmental Biology, Japan "A unique role of kinetochores in mammalian oocytes" (T21)
09:44 - 10:06	Katja Wassmann , Institute of Biology Paris Seine, France "Mps1 kinase-dependent Sgo2 centromere localisation mediates cohesin protection in mouse oocyte meiosis I" (T22)
10:06 - 10:28	Adele Marston, University of Edinburgh, UK "Establishment of meiosis I-specific chromosome segregation by SPO13" (T23)
10:30 - 11:15	Coffee break
11:15 - 11:37	Melina Schuh , Max Planck Institute for Biophysical Chemistry, Germany "A method for the acute and rapid degradation of endogenous proteins in oocytes and other cell types" (T24)
11:37 – 11:59	Kikue Tachibana-Konwalski , Institute of Molecular Biotechnology, Austria "Wapl-mediated cohesin release from chromosomes contributes to maternal age-related egg aneuploidy" (T25)
11:59 – 12:21	Jan-Michael Peters, Research Institute of Molecular Pathology, Austria "Wapl and Pds5 proteins control cohesin-mediated chromosome axis and loop formation" (T26)
12:21 – 12:43	Amira Sallem, Cochin Institute, France (T28)
13:00 - 14:30	Lunch
14:30 - 17:00	Poster session 2a, coffee at 16:00. Even numbers present.
17:00 - 19:00	Session 5: Cell cycle Chair: Akira Shinohara
17:00 - 17:22	Bela Novak , University of Oxford, UK "Cell cycle regulation by systems-level feedback controls" (T29)
17:22 – 17:44	Wolfgang Zachariae, Max Planck Institute of Biochemistry, Germany "Lessons from meiosis II" (T30)
17:44 - 18:06	Thomas Mayer , University of Konstanz, Germany <i>"The role of calcineurin during exit from meiosis II"</i> (T31)
18:06 - 18:28	Orlando Argüello-Miranda, University of Texas Southwestern, USA "A high-dimensional fluorescent microscopy system for quantitative prediction of cell fate during yeast meiosis" (T32)
18:28 - 18:50	Regis Meyer , Oklahoma Medical Research Foundation, USA "Phospho-regulation by Mps1 stabilizes force-generating kinetochore-microtubule attachment" (T33)
19:00 - 20:30	Dinner
20:30 - 22:00	Poster session 2b. Even numbers continue to present.

DAY 4: Wednesday, August 30, 2017

08:00 - 09:00	Breakfast
09:00 - 12:45	Session 6: Pairing and the synaptonemal complex Chairs: Needhi Bhalla, Jeff Sekelsky
09:00 - 09:22	Anne Villeneuve, Stanford University, USA "Promoting and limiting COs during C. elegans meiosis" (T34)
09:22 - 09:44	Abby Dernburg , University of California Berkeley, USA "Evolutionary divergence in meiotic circuitry among nematodes: Pristionchus pacificus does things differently" (T10)
09:44 - 10:06	Da-Qiao Ding , Advanced ICT Research Institute, NICT, Japan "RNA transcription and termination factors are important in meiotic homologous chromosome pairing in S. pombe" (T36)
10:06 - 10:28	Owen Davies , Newcastle University, UK "Structural basis of meiotic chromosome synapsis through SYCP1 self-assembly" (T37)
10:30 - 11:15	Coffee break
11:15 – 11:37	Vasily Zaburdaev, Max Planck Institute for the Physics of Complex Systems, Germany "Understanding the statistics of chromosomes during meiosis in fission yeast" (T38)
11:37 – 11:59	Monique Zetka , McGill University, Canada "A family of SUMO-E3 ligase-like proteins have distinct and essential functions in crossover formation in C. elegans" (T39)
11:59 – 12:21	Jiri Forejt, Institute of Molecular Genetics of the ASCR, Czech Republic "Prdm9-controlled asynapsis in sterile hybrid mice" (T40)
12:21 – 12:43	Arp Schnittger , University of Hamburg, Germany "The Arabidopsis Cdk1/Cdk2 homolog CDKA; 1 controls the number and position of interference- sensitive cross-overs" (T41)
12:45 - 14:00	Lunch
14:00 - 17:00	Social outdoors activities
17:00 - 19:00	Session 7: Checkpoints and feedback controls Chair: Diana E. Libuda
17:00 - 17:22	Ewelina Bolcun-Filas , The Jackson Laboratory, USA "Meiotic Defects And Quality Control In Oocytes From Genetically Diverse Mice" (T42)
17:22 – 17:44	Attila Toth, Technische Universität Dresden, Germany "Controlling DNA Breaks in Mammalian Meiosis" (T43)
17:44 - 18:06	Andreas Hochwagen , New York University, USA "Regional control of meiotic DSB formation by the synaptonemal complex" (T44)
18:06 - 18:28	Martin Anger , Central European Institute of Technology, Masaryk University, Czech Republic "Functional correlation between Spindle Assembly Checkpoint and Anaphase Promoting Complex activity during mammalian meiosis I" (T45)
18:28 - 18:50	Philip Jordan , Johns Hopkins University Bloomberg School of Public Health, USA "Polo-like Kinase 4 Is Required for Homologous Recombination during Mouse Meiosis" (T46)
19:00 - 20:30	Dinner
20:30 - 22:00	General poster session, scientific interactions

DAY 5: Thursday, August 31, 2017

08:00 - 09:00	Breakfast
09:00 - 13:05	Session 8: Double-strand breaks, hotspots and recombination Chairs: Bertrand Llorente, Ian Henderson
09:00 - 09:22	Bernard De Massy , Institute of Human Genetics, CNRS, France "The control of meiotic DSB formation by Prdm9" (T47)
09:22 - 09:44	Alastair Goldman, University of Bradford, UK "Srs2 regulates Rad51 localisation during meiosis and protects from abnormal events." (T48)
09:44 - 10:06	Mathilde Grelon , Institute Jean-Pierre Bourgin INRA, France "Meiotic recombination initiation in A. thaliana" (T49)
10:06 - 10:28	Florencia Pratto , National Institutes of Health, USA "Cell-type specific genomics and in silico modelling of the crosstalk between meiotic replication and recombination in mammals" (T50)
10:30 - 11:15	Coffee break
11:15 – 11:37	Scott Keeney, Memorial Sloan Kettering Cancer Center, USA "Spol1: A "broken" topoisomerase" (T51)
11:37 – 11:59	Paula Cohen , Cornell University, USA <i>"Elucidating the Role of Cyclin N-terminal domain containing-1 (CNTD1) in Crossover Designation</i> During Mammalian Meiosis" (T52)
11:59 – 12:21	Ran Li , University of Oxford, UK "PRDM9 binding symmetry impacts crossover versus non-crossover recombination event resolution in mice" (T53)
12:21 – 12:43	Galina Petukhova, Uniformed Services University of the Health Sciences, USA "Extensive sex differences at the initiation of genetic recombination" (T54)
12:43 - 13:05	Carla M. Abreu, Memorial Sloan Kettering Cancer Center, USA "The mouse Shu complex SWS1-SWSAP1 is essential for meiotic recombination" (T55)
13:05 - 14:30	Lunch
15:00 - 17:15	Session 9: Pathway choice Chair: Ayelet Arbel-Eden
15:00 - 15:22	Neil Hunter , University of California Davis, USA "RNF212 Impedes DNA Break Repair to Enable Oocyte Quality Control" (T56)
15:22 - 15:44	Michael Lichten , National Cancer Institute, NIH, USA "Interplay between chromosome structure and meiotic recombination biochemistry" (T57)
15:44 - 16:06	Valentin Börner , Cleveland State University, USA "DNA Helicase Mph1FANCM Mediates Interhomolog Repair of Meiotic DSBs by Disrupting D-Loops between Sister Chromatids" (T58)
16:06 - 16:28	Joao Matos , ETH Zurich, Switzerland "Dynamic suppression of Holliday junction resolution enables meiotic crossover patterning" (T59)
16:28 - 16:50	Francesca Cole , University of Texas MD Anderson Cancer Center, USA <i>"Temporally and spatially distinct meiotic recombination pathways in mouse spermatocytes"</i> (T60)
16:50 - 17:12	Peter Donnelly , University of Oxford, UK "Repair delay is a key factor in the crossover/non-crossover decision in mouse meiosis" (T61)
17:15 - 18:00	Business meeting
20:00 - 24:00	Gala dinner
	Entertainment

DAY 6: Friday, September 1, 2017

Breakfast

Departure