MAYosis 2025 Program

Wednesday, May 7, 2025: 4 pm CEST (7am PDT, 12am JST)

Moderators: Marie-Emilie Terret, Bernard de Massy

4:00-4:15 pm CEST Jeff Sekelsky: Scott Hawley's memorial

4:20-4:35 CEST: Keynote speaker: **Elvan Böke (Centre for Genomic Regulation, Spain)**
Evading ageing: lessons from oocytes

4:45-4:57 CEST: Victor Leon, New York University (PI: Andreas Hochwagen)
Crossover designation recruits condensin to reorganize the meiotic chromosome axis
5:02-5:14 CEST: Marion Herbette, University of Edinburgh (PI: Laura Ross)
How can a selfish chromosome escape genome-wide meiotic drive?
5:19-5:31 CEST: Hasibe Tuncay, Universität Hamburg (PI: Arp Schnittger)
DREAMing Meiosis: Transcriptional regulation of homologous recombination by the DREAM-complex in Arabidopsis thaliana
5:36-5:48 CEST: Tom Parée, IBENS & NYU (PI: Henrique Teotónio)
Selection for recombination impairs adaptation in *Caenorhabditis elegans*

6:03-7:03 CEST: open discussion

Wednesday, May 14, 2025: 4 pm CEST (7am PDT, 12am JST)

Moderators: Laurent Duret, Frédéric Baudat

4:00-4:15 pm CEST: Keynote speaker: **Felicity Jones (University of Groningen, The Netherlands)**
Recombination variation and its fitness consequences in adaptively diverging stickleback fish

4:25-4:37 CEST: Lavernchy Jovanska, Institute of Molecular Biology, Academia Sinica, Taiwan (PI: Wang Ting-Fang)
DNA Cytosine Methyltransferases Differentially Regulate Genome-wide Hypermutation and Interhomolog Recombination in *Trichoderma reesei* meiosis
4:42-4:54 CEST: Valentine Petiot, Institute of Genetics, Reproduction & Development (Clermont-Ferrand, France) (PI: Olivier Da Ines)
Dual role of *Arabidopsis* SRS2 helicase in meiotic recombination
4:59-5:11 CEST: William Gittens, Genome Damage and Stability Centre, School of Life Sciences, University of Sussex, UK
Top3 tracks crossover migration towards the meiotic chromosome axis
5:16-5:28 CEST: Ana Cobos, European Molecular Biology Laboratory (EMBL) (PI: Simone Koehler)
Let's pair! Isoform-specific pairing ensures the correct chromosome segregation in *C. elegans* meiosis
5:33-5:45 CEST: Tabea Lilian Marx, Max Planck Institute for Multidisciplinary Sciences (PI: Melina Schuh)
Revealing the secrets of ovulation

6:00-7:00 CEST: open discussion

Wednesday, May 21, 2025: 4 pm CEST (7am PDT, 12am JST)

Moderators: Thomas Robert, Chloé Girard

4:00-4:15 pm CEST: Keynote speaker: **Ofer Rog (University of Utah, USA)**

Regulating sister interactions during meiosis

4:25-4:37 CEST: Marcel Ernst, Max-Planck Institute for Dynamics and Self-Organization (PI: Dr. David Zwicker)
Coarsening model of crossover placement with exchange via nucleoplasm
4:42-4:54 CEST: Priyanka Priyadarshini, Université catholique de Louvain (PI: Corentin Claeys Bouuaert)
A SUMO-SIM interaction fosters chromatin recruitment of Mre11 during meiosis
4:59-5:11 CEST: Alice Chanteau, INRAE - IJPB (PI: Rajeev Kumar)
Moss BRCA2 without canonical DNA binding domain promotes efficient homologous recombination
5:16-5:28 CEST: Alexandre Pelé, Laboratory of Genome Biology, Institute of Molecular Biology and Biotechnology, Adam Mickiewicz University, Poznań, Poland (PI: Piotr A. Ziolkowski)
Cold-induced meiotic crossover variation in *Arabidopsis* diversity is driven by SNI1 and its polymorphism
5:33-5:45 CEST: LingSze Lee, NICHD/NIH (PI: Leah F. Rosin)
Chromosome-specific patterns of CO formation in the pantry moth

6:00-7:00 CEST: open discussion

Wednesday, May 28, 2025: 4 pm CEST (7am PDT, 12am JST)

Moderators: Bertrand Llorente, Rajeev Kumar

4:00-4:15 pm CEST: Keynote speaker: **Francesca Cole (MD Anderson Cancer Center, University of Texas, USA)**

Crossover assurance in mouse spermatocytes.
4:25-4:37 CEST: Sara Hariri, University of California, Davis (PI: Neil Hunter)
The meiotic DNA damage response is augmented by SUMOylation of HORMA domain protein, Hop1
4:42-4:54 CEST: Wenxin Xie, University of Michigan-Ann Arbor (PI: Saher Sue Hammoud)
ZCWPW1 Drives Meiotic Chromosome Pairing by Recombination-Nuclear Envelope Dynamics Coupling
4:59-5:11 CEST: Benoît Madec, I2BC, France (PI: Chloé Girard)
Polymorphism drastically impacts meiotic crossover distribution in *Arabidopsis thaliana*
5:16-5:28 CEST: Lucija Orlić, Max Perutz Labs, University of Vienna (PI: Joao Matos)
A system to dissect the *in vivo* outcome(s) of meiotic double Holliday junction processing by Holliday junction resolvases and the STR/BTR complex
5:33-5:45 CEST: Lexy von Diezmann, University of Minnesota, Dept. of Genetics, Cell Biology, and Development
The synaptonemal complex compartmentalizes the diffusion of meiotic signals

6:00-7:00 CEST: open discussion