Organizers:

Dr Isabelle Colas

The James Hutton Institute

Dr Alexander Lorenz

University of Aberdeen

## **20th April 2017**

**12.00: Registration and Lunch**

**13.00-13.30: Plenary Speaker: Mathilde GRELON** (Institute Jean-Pierre Bourgin, INRA, Versailles, France) : A DNA topoisomerase VI-like complex initiates meiotic recombination

### **13.40-15.00: Session 1: Genetic and Environmental Determinants of Recombination**

**13:40: Kayleigh Wardell** (University of Sussex): Control of meiotic DNA end-resection by Rad24 in *Saccharomyces cerevisiae*

**14:00: Simon Brown** (University of Aberdeen): Delineating the role of Schizosaccharomyces pombe Hop1, a conserved meiosis-specific chromosome axis protein

**14:20: Mikel Arrieta** (The James Hutton Institute): Influence of temperature on recombination in barley

**14:40: Candida Nibau** (IBERS, Aberystwyth University): The CDKG1 protein kinase is essential for male meiosis at high ambient temperature

##### **15.00-17.00: Coffee/Tea, poster session, and facilities tour**

### **17.00-18.40: Session 2: Cohesion and Chromosome Segregation**

**17:00: Daniel Cooney** (University of Newcastle) Age associated chromosomal instability in Human Oocytes

**17:20: Caitríona M. Collins** (The National University of Ireland) A novel nuclear function for mitochondrial ATP synthase F1 subunits during Drosophila male meiosis

**17:40: Oana Telecan** (Imperial College London) Investigating the different roles of the HORMA-domain protein HTP-1 during meiotic prophase

**18:00: Stefan Galander** (University of Edinburgh): Establishing meiosis i-specific chromosome segregation

**18:20: Mariana Costa** (University of Edinburgh): The molecular architecture of the bipolar spindle is remodelled during the long oocyte arrest

##### **19.30 Dinner (Apex Hotel)**

# 21st April 2017

**9.00-9.30: Plenary Speaker: Bernard DE** **MASSY** (Institute of Human Genetics, CNRS, Montpellier, France): TBA

### **9.30-11.00: Session 3: Crossover Control**

**9:30: Divyashree C. Nageswaran** (University of Cambridge): A genetic screen to identify factors that control meiotic recombination in Arabidopsis thaliana

**9:50: Joiselle Fernandes** (INRA UMR 1318, France): The conserved complex FLIP-FIGL1 negatively regulates meiotic crossover formation.

**10:10: Adrian Gonzalo** (INRA UMR1318 & UMR1349, France): Crossover MSH4-dependancy varies with ploidy level in Brassica napus meiosis.

##### **10.30-11.00: Coffee/Tea and poster session**

## **11.00-12.00: Checkpoints & Synaptonemal Complex**

**11:00: James H. Crichton** (MRC Human genetics Unit, Edinburgh): Defects in Meiotic Recombination Delay Progression Through Pachytene in Mouse Spermatocytes

**11:20: Lucas Pellegrini** (University of Cambridge): Biophysical studies of the meiotic protein SYCP3

**11:40: James M. Dunce** (University of Newcastle): Structural basis of meiotic chromosome synapsis through SYCP1 self-assembly

##### **12.00: Closing comments, BMM 2018 business, lunch and departure**

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