Mitosis and Nuclear Structure

Wiston House • West Sussex • 23 – 26 June 2013



12:30 - 14:00 Lunch

14:00 – 14.15 **Introductions:**

The Company of Biologists - Tim Hunt

Workshop - Katherine Wilson, Timothy Mitchison

and Michael Rout

Session 1: New Perspectives

Chair - Tom Misteli

14:15 – 14:55	Katherine Wilson Nuclear structure and mitosis: new perspectives
14:55 – 15:35	Timothy Mitchison Proteomic analysis of spindle-like arrays from <i>Xenopus</i> eggs
15:35 - 16:15	Tea break
16:15 – 16:55	Michael Rout Structure, function, and evolution of the NPC
16:55 – 17:35	Damien Devos Microbiology's platypus
18:00 - 19:30	Pre-dinner drinks and poster session
19:30 - 21:00	Dinner
21:00 - 22:00	Slide presentations
21:00 - 23:30	Bar open

Programme

Monday 24 June 2013

08:00 - 09:00	Breakfast
	Session 2: Chromosome Segregation Chair – Yixian Zheng
09:00 - 09:40	David Sherratt Bacterial chromosome organization and segregation
09:40 - 10:20	Christine Jacobs-Wagner Chromosome dynamics in bacteria
10:20 - 11:00	Group photo Tea break
11:00 – 11:40	Yosef Gruenbaum Roles for nuclear lamina proteins in mitosis and meiosis
11:40 – 12:20	Kristen Johansen Nuclear proteins reorganize during mitosis to form an elastic spindle matrix
12:30 - 13:30	Lunch
13:30 - 15:00	Walk (meet at Reception)
15:00 - 15:30	Tea break
	Session 3: Membrane Proteins and Chromosomes Chair - Catherine Dargemont
15:30 – 16:10	Rebecca Heald REEP3/4 proteins clear endoplasmic reticulum from metaphase chromosomes and ensure proper nuclear envelope architecture
16:10 – 16:50	David Evans Variations on a theme: the higher plant nuclear envelope in mitosis
16:50 – 17:30	Brian Burke The missing LINC: nuclear membrane proteins and meiotic chromosome dynamics
18:00 - 18:45	Pre-dinner drinks
18:45 - 19:30	History talk on Wiston House
19:30 - 21:00	Dinner
22:00 - 23:30	Bar open

Programme

Tuesday 25 June 2013

08:00 - 09:00	Breakfast
	Session 4: Nucleoporins, Ran and Mitosis Chair – Martin Hetzer
09:00 - 09:40	Valérie Doye The Y-complex, a key nuclear pore subunit in cell cycle and differentiation
09:40 - 10:20	Catherine Dargemont Yeast nuclear pore complex, post-translational modifications and cell cycle: intriguing interplay
10:20 - 11:00	Tea break
11:00 – 11:40	Mary Dasso Regulating Ran in mitosis
11:40 – 12:20	Erica Golemis Bridges between mitosis and the ciliary cycle in cancer and ADPKD
12:30 - 13:30	Lunch
	Session 5: Lamins: Evolving Views Chair – Kristen Johansen
14:00 – 14:40	Yixian Zheng Lamins in mitosis and interphase in the context of tissue building
14:40 – 15:20	Ralph Gräf A lamin in lower eukaryotes?
15:20 - 16:00	Tea break
16:00 – 16:40	Mark Field Antigenic variation, epigenetics and trypanosomes
16:40 - 18:30	Break
18:30 – 19:30	Pre-dinner drinks
19:30 – 21:30	Dinner
21:30 - 00:00	Bar open

Programme

Wednesday 26 June 2013

08:00 - 09:00 Breakfast

Session 6: Nuclear Membrane Proteins

Chair - David Evans

09:00 - 09:40 **Tom Misteli**

Non-random genome organization

09:40 – 10:20 **Eric Schirmer**

Tissue-specific NE proteins contribute to differentiation by influencing gene expression through spatial organisation of the genome

10:20 - 11:00 Tea break

11:00 – 11:40 **Martin Hetzer**

Catastrophic nuclear envelope collapse

in cancer cell micronuclei

11:40 – 12:00 Overview of workshop

Depart

12:00 – 13:00 Lunch



All meals will be served in The Great Hall