abcam

Cell Cycle Conference

October 5, 2022

Scientific Organizers:
Rob De Bruin (University College London, UK)
Peter Thorpe (Queen Mary University of London, UK)
Snezhka Oliferenko (Kings College London, UK)

Program

3.00pm Welcome

3.05pm Caroline Limas *(Strategic Marketing Manager, Abcam)*
How Abcam can enable your next breakthrough

3.10pm Ryan Mouery *(UNC School of Medicine, North Carolina)*
Proteomic Analysis Reveals a Plk1-Dependent G2/M Degradation Program

3.40pm Yumi Ida *(Weill Cornell Medicine, New York)*
A state of partial Rb inactivation and intermediate E2F activation safeguards proliferation commitment

4.10pm Madzia Crossley *(Stanford University Cancer Institute, California)*
R-loop derived cytoplasmic RNA-DNA hybrids activate an immune response

4.40pm Breakout session 1

5.00pm Breakout session 2

Please refer to *Pages 3-4* for more details on our breakout sessions.

5.20pm **Keynote**
Professor Sophie Martin *(University of Lausanne, Switzerland)*
Assembly of the actin fusion focus for cell fusion

6.20pm Closing remarks

Note that timings are shown in BST.

Please visit the event page for more details.

Keynote Speakers

Professor Sophie Martin

Director of the Department of Fundamental Microbiology

University of Lausanne

Sophie Martin earned her Diploma in 1998 from the University of Lausanne for her study of chromatin organization in the laboratory of Dr Susan Gasser at the Swiss Institute for Experimental Cancer Research (ISREC). She then joined the group of Dr Daniel St Johnston at the Welcome/CR UK Gurdon Institute to study the molecular mechanisms of cell polarization and mRNA localization using Drosophila as model system and received her PhD in 2003 from the University of Cambridge. She obtained postdoctoral training in the laboratory of Dr Fred Chang at Columbia University in New York, studying cell polarization and the cytoskeleton in the fission yeast. In 2007, she joined the Center for Integrative Genomics at the University of Lausanne as a Swiss National Science Foundation Professor. She was appointed Associate Professor in 2010 and Full Professor in 2018 at the Department of Fundamental Microbiology (DMF), of which she was the director between 2020 and 2022. In 2009, she was elected as an EMBO Young Investigator, in 2012 she received the WICB Junior Award from the American Society for Cell Biology, and in 2014 the Friedrich Miescher award and the EMBO Gold medal. She was elected EMBO member in 2020.

Breakout Sessions

Breakout Session 1

Room 1

Carolline Ascenção — Multiple TOPBP1 functions in XY control are required for male fertility

Room 2

Chris Zhao — Transcriptional regulation of C. *elegans* CDK4/6 mediates the quiescence-proliferation decision

Room 3

Isabella Koprivec — Microtubule pivoting ensures passage of polar chromosomes across the centrosome required for timely alignment

Room 4

Kaliya Georgieva — Nuclear lncRNA C1QTNF-AS1 regulates cell division by binding to splicing factors

Room 5

Kristi Miller — The fission yeast cell size control system integrates pathways measuring cell surface area, volume, and time

Room 6

Mariam Huda — Investigating the role of PI(3,5)P2 in Regulation of Miotic Exit

Room 7

Mohammed Mamun — Differential replication origin distribution in smaller and larger genomes

Breakout Session 2

Room 1

Molly Guscott — Tracking ovarian cancer genome evolution in real time reveals rates and mechanisms of chromosomal instability

Room 2

Reece Foy — CDK4/6 inhibition can turn an oncogene into a tumour suppressor

Room 3

Sandhya Manohar — Cell cycle progression defects and impaired DNA damage signaling drive enlarged cells into senescence

Room 4

Sara González — Exit meiotic prophase I is regulated by the action the polo-like kinase Cdc5 on CDK regulators

Room 5

Sherman Foo — Diacylglycerol at the inner nuclear membrane fuels nuclear envelope expansion in closed mitosis

Room 6

Sophia Hu — Epithelial-mesenchymal transition couples with both G1/S and G2/M arrest

Room 7

Vladimir Volkov — Stable kinetochore-microtubule attachment requires loop-dependent Ndc80-Ndc80n binding