

# 2019 Trieste CELL CYCLE MEETING

## Day 1 | Monday June 3

15:00-17:30	Meeting registration opens
17:30-17:45	Welcome
17:45-18:45	Keynote Lecture   Rong Li   <i>The diverse cell cycle</i>
18:45-19.15	Snacks and nibbles
	<b>Session 1   Diversity in cell cycle control</b>
19.15-19:20	Introduction to session   Chair Zhaohua Tang
19.20-19:45	Ines Drinnenberg   <i>Loss is more: Evolution of CenH3-independent chromosome segregation in holocentric insects</i>
19:45-20:10	Geert Kops   <i>Weird divisions: Evolutionary dynamics of eukaryotic kinetochores</i>
20:10-20:25	Maria Rosa Domingo Sananes   <i>Paradoxical diversity of cell cycle control across eukaryotes</i>
20:25-20:40	Gabriel Tarrason Risa   <i>Proteasomal degradation of archaeal ESCRT-III is a key event in the mitotic exit of Sulfolobus acidocaldarius</i>
21:00	Welcome Reception   Aperitif with finger food at historic Caffè degli Specchi

## Day 2 | Tuesday June 4

	<b>Session 2   Genome duplication and stability I</b>
9:00-9:05	Introduction to session   Chair Bart Westendorp
9:05-9:30	Jenny Wu   <i>Modulating the replication program: inputs from CDK regulation</i>
9:30-9:55	John Diffley   <i>Chromosome Replication: From Mechanism to Misregulation in Cancer</i>
9:55-10:10	Carolin Müller   <i>Capturing the dynamics of genome replication on individual ultra-long nanopore sequence reads</i>
10:10-10:25	Kurt Schmoller   <i>Template-limited transcription coordinates histone homeostasis with DNA content</i>
10:25-11:00	Coffee break
	<b>Genome duplication and stability II</b>
11:00-11:25	Maria Pia Longhese   <i>Regulation of the MRX complex at DNA double-strand breaks</i>
11:25-11:50	Tanya Paull   <i>Cell Cycle Regulation of Protein Homeostasis</i>
11:50-12:05	Karl-Uwe Reuswig   <i>A cell cycle-specific response to DNA over-replication</i>
12:10-13:00	Lunch at Venue
13:00-15:00	Posters
	<b>Session 3   Chromosome segregation and cytokinesis I</b>
15:00-15:05	Introduction to session   Chair Ethel Querait
15:05-15:30	Frank Uhlmann   <i>Control over Temporal Order during Cell Cycle Progression</i>
15:30-15:55	Adrian Saurin   <i>Signal integration at the kinetochore</i>
15:55-16:10	Giorgia Benzi   <i>A common molecular mechanism underlies the function of Mps1 in chromosome segregation and Spindle Assembly Checkpoint</i>
16:10-16:25	Manuel Mendoza   <i>Budding yeast complete DNA replication after chromosome segregation begins</i>
16:30-17:10	Coffee break
	<b>Chromosome segregation and cytokinesis II</b>
17:10-17:35	Silke Hauf   <i>Features of spindle assembly checkpoint gene expression</i>
17:35-18:00	Iain Cheeseman   <i>Modulating and Rewiring Kinetochore Function</i>
18:00-18:15	Chloe Snider   <i>The Cdc15 F-BAR simultaneously binds membrane and scaffolds protein partners to promote proper organization of the cytokinetic ring</i>
18:15-18:30	Gerard Pieper   <i>ESCRT-III/Vps4 controls heterochromatin-nuclear envelope attachments</i>
18:30	Organised tours of Trieste

# 2019 Trieste CELL CYCLE MEETING

## Day 3 | Wednesday June 5

### Session 4 | Cell cycle decision-making I

- 9:00-9:05 Introduction to session | Chair Silvia Santos
- 9:05-9:30 Jan Skotheim | *Cell growth dilutes the cell cycle inhibitor Rb to trigger cell division in human cells*
- 9:30-9:45 Helfrid Hochegger | *Towards a quantitative model of mitotic cell cycle control in human cells*
- 9:45-10:00 Jennifer Ewald | *Multiple layers of phospho-regulation coordinate metabolism and the cell cycle*
- 10:00-10:35 Coffee break

### Cell cycle decision-making II

- 10:35-11:00 Damien Coudreuse | *Cell cycle regulation: simpler is better?*
- 11:00-11:25 Bela Novak | *Decision-making during multiple-fission cycle*
- 11:25-11:40 Michael Boemo | *Modelling Made Easy: A Programming Language for Cell Cycle Processes*
- 11:40-13:30 Lunch time
- 13:30-15:00 Posters

### Session 5 | Cell cycle decision-making III

- 15:00-15:05 Introduction to session | Chair Agathe Chaigne
- 15:05-15:30 EMBO Young Investigator Programme Lecture | Bungo Akiyoshi |  
*Understanding the mechanism of chromosome segregation: lessons from kinetoplastid parasites*
- 15:30-15:55 Kathy Gould | *A tail of kinase regulation: how C-termini modulate CK1 substrate phosphorylation*
- 15:55-16:10 Arne Lindqvist | *Why is G2 phase not shorter?*
- 16:10-16:25 Lendert Gelens | *Self-organization of mitotic waves depends on the spatial geometry of the system*
- 16:30-17:10 Coffee break
- ### Cell cycle decision-making IV
- 17:10-17:35 Folkert van Werven | *Cell fate control by an alternative transcriptome*
- 17:35-18:00 Stefano Di Talia | *Waves and flows: physical principles of organization of early embryogenesis and regeneration*
- 18:00-18:15 Patrick O'Farrell | *The role of the cell cycle in the initial events in embryonic differentiation of the genome*
- 18:15-18:30 Masamitsu Sato | *Virtual time-lapse single cell transcriptomes revealed a 'wake-up' strategy for dormant cells at cell cycle initiation*
- 19:00 Pizza party

## Day 4 | Thursday June 6

### Session 6 | Genome integrity and disease I

- 9:00-9:05 Introduction to session | Chair Katja Wassmann
- 9:05-9:30 Orna Cohen-Fix | *How do parental genomes mix after fertilization?*
- 9:30-9:55 Julie Cooper | *Why centromeres fall apart in meiosis, and how telomeres promote their reassembly*
- 9:55-10:10 EMBO Young Investigator Programme Lecture | Ross Chapman |  
*PLK4 inhibition is synthetic lethal with high TRIM37 expression in 17q23-amplified breast cancer cells*
- 10:10-10:25 Izabela Sumara | *Spatial control of nucleoporin assembly by Fragile X syndrome proteins during early G1*
- 10:25-11:00 Coffee break

### Genome integrity and disease II

- 11:00-11:25 Sarah McClelland | *Analysing chromosome-specific behaviour to reveal novel mechanisms governing genome stability*
- 11:25-11:50 Giulia Rancati | *Environmental stresses induce karyotypic instability in colorectal cancer cells*
- 11:50-12:05 Jet Segeren | *Heterogenous DNA damage response allows escape from replication stress-inducing drugs*
- 12:05-12:30 Closing remarks