

## Australian Cell Cycle Meeting (ACCM) 2015 Program

All sessions are held in the Target Theatre of the Powerhouse Museum

### Monday, March 30

12:00-14:00 Arrival & Registration (Powerhouse Museum – Target Theatre Foyer)

#### Session I: Checkpoints I (Chair: Hilda Pickett)

14:00-14:15 Welcome by organisers

14:15-14:45 Derek Richard (Queensland University of Technology)  
*CDCA3, a role in DNA damage induced checkpoints*

14:45-15:00 Mark Adams (Queensland University of Technology, Brisbane)  
*hSSB1 is essential for the repair of oxidative DNA damage*

15:00-15:15 Sang Hyun Lee (National University of Singapore, Singapore)  
*B56-PP2A regulates motor dynamics for mitotic chromosome alignment via BUBRI*

15:15-15:45 Jörg Heierhorst (St Vincent's Institute)  
*TQT motifs – mediators of crosstalk between ATM/ATR signaling and dynein light chain-dependent protein hub organization*

#### 15:45-16:15 Coffee/Tea

16:15-17:15 Keynote lecture (Chair: Megan Chircop)  
Andrea Musacchio (Max-Planck Institute of Molecular Physiology, Germany)  
*TBA*

17:15-18:45 Poster session with cheese & wine (Target Theatre Foyer)

**19:00 Welcome Dinner and Drinks (Transport Exhibition, Powerhouse Museum)**

### Tuesday, March 31

#### Session II: Cancer I – Chromosome instability (Chair: Chris Jolly)

09:00-09:30 Pascal Duijf (University of Queensland, Diamantina Institute)  
*Chromosome instability in cancer initiation and progression*

09:30-09:45 Stephen Gregory (University of Adelaide, Adelaide)  
*Targeting Chromosomal Instability*

9:45-10:00 Elaine Sanij (Peter MacCallum Cancer Centre, Melbourne)  
*UBF1/2 plays a fundamental role in maintaining genome stability through coordinating the expression of highly transcribed Pol I and Pol II genes*

10:00-10:30 Neil Watkins (Garvan Institute of Medical Research, Sydney)  
*Epigenetics and Chromosomal Instability in Cancer*

**10:30-11:00 Coffee/tea**

***Session III: Senescence (Chair: Roger Reddel)***

11:00-11:30 Lee Wong (Monash University)  
*Histone variant H3.3, ATRX and ALT cancers*

11:30-11:45 Alex Sobinoff (Children's Medical Research Institute)  
*Alternative lengthening of telomeres: controlling crossover*

11:45-12:00 Naisana S. Asli (Victor Chang Cardiac Research Institute)  
*PDGF-mediated Metabolic Drive as a Novel Cell Cycle Regulatory Pathway in Cardiac Mesenchymal Stem Cells*

12:00-12:30 Ygal Haupt (The Peter MacCallum Cancer Centre)  
*A role for E3 ligases in the control of cellular senescence*

**12:30-14:30 Lunch and Posters (Target Theatre Foyer)**

***Session IV: Developmental and Tissue Biology II (Chair: Leonie Quinn)***

14:30-15:00 Phil Hogkin (Walter and Elizabeth Hall Institute of Research)  
*How manipulating the time taken to divide underlies immune regulation*

15:00-15:15 Alex Combs (University of Queensland)  
*Global quantification of tissue dynamics in the developing kidney*

15:15-15:30 Wai Shan Yuen (Monash University, Melbourne)  
*PLK1 Plays A Role In Cortical Actin Polymerization During Female Meiosis*

15:30-15:45 Deepak Adhikari (Monash University, Melbourne)  
*Specific requirement of *Mastl* for meiosis II entry but not for meiosis I progression in mouse oocytes*

***Special Session IV Cancer Research Lecture (Chair: Andrew Burgess)***

15:45-16:15 Grant McArthur (Peter MacCallum Cancer Centre)  
*TBA*

**16:15-16:45 Coffee/Tea**

16:45-17:45 Keynote lecture (*Chair: Tony Cesare*)  
Jan Karlseder (The Salk Institute, USA)  
TBA

18:00 Depart for conference dinner via bus/taxis

**18:30-22:00 Conference Dinner (The Glenmore, The Rocks)**

### **Wednesday, April 1**

#### **Session V: Replication (Chair: Jorg Heierhorst)**

09:00-09:30 Andrew Deans (St. Vincent's Institute of Medical Research, Melbourne)  
*"The repair of stalled replication forks"*

09:30-09:45 Radoslaw S. Szmyd (Institute of Molecular and Cell Biology, A\*STAR, Singapore)  
*Premature Cdk1 activation leads to DNA damage*

09:45-10:00 Liz Caldon (Garvan Institute of Medical Research, Sydney)  
*Cyclin E2 degradation via DDB1 enables the DNA damage response and prevents genomic instability*

10:00-10:15 Tracy Bryan (Children's Medical Research Institute)  
*A cancer risk-associated polymorphism in the TERT locus encodes a novel splice variant which is a dominant negative inhibitor of telomerase*

**10:15-10:45 Coffee/tea**

#### **Session VI: Mitosis (Chair: Pascal Duijf)**

10:45-11:00 Mayumi Kitagawa (Duke-NUS Graduate Medical School, Singapore)  
*"Cdk1 Coordinates Timely Activation of MKlp2 kinesin with Relocation of the Chromosome Passenger Complex for Cytokinesis"*

11:00-11:15 Sam Rogers (Garvan Institute of Medical Research, Sydney)  
*"The Greatwall to Mitotic Exit"*

11:15-11:30 Dominic Ng (University of Melbourne, Melbourne)  
*"Microcephaly-associated WD-Repeat Protein 62 assembles an Aurora A/c-Jun N-terminal Kinase 1 (JNK1) signalling nexus at the centrosome for mitotic spindle regulation"*

11:30-11:45 Dadar Ahmadi-Pirshahid (Children's Medical Research Institute, Sydney)  
*"Phosphorylation regulates distinct mitotic functions of sortin nexin 9 (SNX9)"*

11:45-12:00 V. Pragathi Masamsetti (Children's Medical Research Institute, Sydney)  
*"Replication stress induces the prolonged mitotic arrest telomere-dependent DNA damage response"*

**12:00-13:00 Lunch (Target Theatre Foyer)**

**Session VII: Cancer II - Drugs (Chair: Maria Kavallaris)**

13:00-13:30 Joshua McCarroll (University of New South Wales, Sydney)  
*"The role of microtubules in regulating tumour growth and chemosensitivity"*

13:30-13:45 Claire Levrier (APCRC-Q, Brisbane)  
*"Mechanism of action studies in prostate cancer cells on new compounds isolated from an Australian endemic rainforest tree"*

13:45-14:00 Leonie Quinn (University of Melbourne, Melbourne)  
*"Investigating stem cell-niche interactions in vivo: the RRM protein Hfp/FIR transcriptionally represses MYC to prevent germline tumour formation"*

14:00-14:15 Claire Vennin (Garvan Institute of Medical Research, Sydney)  
*"Live intravital imaging of a CDK1 FLIM-FRET biosensor to assess the efficiency of dual targeting therapies in pancreatic cancer"*

14:15-14:45 Helen Rizos (Macquarie University)  
*"Drug resistance and implications for personalised medicine in melanoma"*

14:45-15:00 Closing remarks by organisers and discussion of ACCM2017

15:00 Departure