

























Melbourne, Australia
27-29 November, 2019


Programme

Wednesday 27th Nov 2019	
Time	Details
13:00 - 14:00	Registration <i>Location: Atrium, Level 7, VCCC</i>
14:00 - 14:30	Welcome Address by Prof. James Whisstock (Scientific Head of EMBL) <i>Location: Lecture Theatre B, Level 7, VCCC</i> Gabriel & Kenji - EAPS19 Convenors Sponsored by: Peter MacCallum Cancer Centre & Victorian Comprehensive Cancer Centre  Peter Mac Peter MacCallum Cancer Centre Victoria Australia 
14:30 - 15:30	Keynote Address Prof. Christine Wells Stamp collectors and data parasites – how atlas projects have accelerated the life sciences <i>Location: Lecture Theatre B, Level 7, VCCC</i> Sponsored by: Macrogen Oceania 
15:30 - 16:30	Plenary Address - Development & Regeneration <i>Location: Lecture Theatre B, Level 7, VCCC</i> Invited Speaker: A/Prof. Enzo Porrello A neonatal blueprint for cardiac regeneration Sponsored by: Australian Regenerative Medicine Institute   
16:30 - 17:15	Student Oral Presentations - Development & Regeneration <i>Location: Lecture Theatre B, Level 7, VCCC</i> DR-1: Riley McMahon A mechanistic insight into building the embryonic head DR-2: Sam Francis Rapid isolation of mesenchymal stem cells to treat clinically significant cartilage defects in one surgical biofabrication procedure DR-3: Yi-Cheng Chang Revealing the function of Nr6a1 in axial elongation and body size determination
17:15 - 18:00	Panel Discussion: "Life in Academia Today" <i>Location: Lecture Theatre B, Level 7, VCCC</i> Dr. Dane Cheasley; Dr. Angel Lu; Dr. Kevin Huynh; Dr. Jean Tan; Dr. Nicholas Kirk; Prof Christine Wells; Dr Irene Gallego Romero; Dr. Talitha Santini; Prof Matt Sweet Sponsored by: Murdoch Children's Research Institute 

Thursday 28th Nov 2019	
09:00 - 10:00	Plenary Address - Molecular & Cellular Biology <i>Location: Lecture Theatre B, Level 7, VCCC</i> Invited Speaker: Dr. Kate Lawlor RIPing advice for a career in medical research Sponsored by: Australian Regenerative Medicine Institute   

10:00 - 10:45	<p>Student Oral Presentations - Molecular & Cellular Biology <i>Location: Lecture Theatre B, Level 7, VCCC</i></p> <p>MCB-1: Stephanie Carmen Tran Plag1 expression in adult mouse brain and effect of Plag1 knockout on selected behaviours</p> <p>MCB-2: Elizabeth S. Stout A regulatory mutation in the foetal globin promoter reduces the severity of sickle cell disease via re-activation of foetal haemoglobin</p> <p>MCB-3: Martha Blank EphrinB2 deficiency in osteocytes leads to increased mineralisation and autophagosomes due to a Golgi-mediated lysosomal storage disorder</p>
10:45 - 11:15	<p>Morning Tea <i>Location: Atrium, Level 7, VCCC</i></p> <p>Sponsored by: Abcam</p> 
11:15 - 12:15	<p>Plenary Address - Computational & Systems Biology <i>Location: Lecture Theatre B, Level 7, VCCC</i></p> <p>Invited Speaker: Dr. Irene Gallego Romero 70,000km of human evolutionary genomics</p> <p>Sponsored by: Garvan Institute of Medical Research</p> 
12:15 - 13:00	<p>Student Oral Presentations - Computational & Systems Biology <i>Location: Lecture Theatre B, Level 7, VCCC</i></p> <p>CSB-1: Gyan Prakash Mishra Epigenetic control of cDC1 DC responses by nuclear receptor co-repressor NCoR1</p> <p>CSB-2: Ruining Dong SVEnsemble: an algorithm for ensemble structural variant calling using re-evaluated quality scores via probabilistic random forest</p> <p>CSB-3: Yiwen (Eva) Wang PLSDA-batch: A multivariate method to correct for batch effects in microbiome data</p>
13:00 - 13:45	<p>Student Lightning Talks - Session 1 <i>Location: Lecture Theatre B, Level 7, VCCC</i></p> <p>Poster IDs: A1-4, B1-5, C1-2, D1-2</p> <p>Sponsored by: The University of Western Australia</p> 
13:45 - 15:00	<p>Lunch & Student Poster Presentations <i>Location: Atrium and Lecture Theatre A & C, Level 7, VCCC</i></p> <p>Posters in A, B, C and D</p> <p>Sponsored by: University of Wollongong</p> 
15:00 - 16:00	<p>Plenary Address - Ecology & Environmental Sciences <i>Location: Lecture Theatre B, Level 7, VCCC</i></p> <p>Invited Speaker: Dr. Talitha Santini Microbes, mining, and mud - exploring natural systems to develop new technologies for environmental management</p> <p>Sponsored by: The University of Western Australia</p> 
16:00 - 16:45	<p>Student Oral Presentations - Ecology & Environmental Sciences <i>Location: Lecture Theatre B, Level 7, VCCC</i></p> <p>EES-1: Noor-ul-Huda Ghori Uncovering the microbial interactions: The social life of extremophiles</p> <p>EES-2: Jody McKerral Synergetic impacts of turbulence and fishing reduce ocean biomass</p> <p>EES-3: Selene Cannelli Development of an extraction method to isolate novel viral samples from turbid seawater samples</p>
19:00 - 23:00	<p>Symposium Dinner <i>Location: Grand Hyatt Melbourne</i></p> <p>Sponsored by: Abcam</p> 

08:45 - 09:45	Plenary Address - Immunology <i>Location: Lecture Theatre B, Level 7, VCCC</i> Invited Speaker: Prof. Matt Sweet Innate Immunity as a model system for deciphering biological complexity Sponsored by: CSL Limited 
09:45 - 10:30	Student Oral Presentations - Immunology <i>Location: Lecture Theatre B, Level 7, VCCC</i> IMM-1: Rebecca Buckland A novel method for detecting neutrophil extracellular traps IMM-2: Shilian Xu Saturation of virus neutralisation leads to bistable growth kinetics IMM-3: Yusun Jeon Targeting host factors in infections
10:30 - 11:00	Plenary Address - Cancer <i>Location: Lecture Theatre B, Level 7, VCCC</i> Invited Speaker: Prof. Ricky Johnstone The ups and downs on the road to scientific independence and leadership Sponsored by: South Australian Health and Medical Research Institute 
11:00 - 11:30	Morning Tea <i>Location: Atrium, Level 7, VCCC</i> Sponsored by: Abcam 
11:30 - 12:15	Student Oral Presentations - Cancer <i>Location: Lecture Theatre B, Level 7, VCCC</i> CAN-1: Adam Hagg Muscle Fibre denervation and Inhibited Bone Morphogenetic Protein signalling promote cancer associated muscle wasting CAN-2: Ho Yi Wong Laser Epidermal ablation reduces keratinocyte mutation load through sequencing: a clinical trial CAN-3: Brittany Dewdney Hepatocellular carcinoma growth can be reduced with fructose and two novel metabolic inhibitors
12:15 - 12:45	Plenary Address - Translating Science <i>Location: Lecture Theatre B, Level 7, VCCC</i> Invited Speaker: Dr. Damien Bates Transitioning one's career from academia to industry – trials and triumphs Sponsored by: BioCurate 
12:45 - 13:30	Student Lightning Talks - Session 2 <i>Location: Lecture Theatre B, Level 7, VCCC</i> Poster IDs: E1-4, F1-5, G1-4 Sponsored by: Murdoch Children's Research Institute 
13:30 - 14:45	Lunch & Student Poster Presentations <i>Location: Atrium and Lecture Theatre A & C, Level 7, VCCC</i> Posters in E, F and G Sponsored by: University of Wollongong 

14:45 - 15:45	<p>Plenary Address - Combating disease - Animal models & drug discovery <i>Location: Lecture Theatre B, Level 7, VCCC</i></p> <p>Invited Speaker: Dr. Chris Langmead Driving drug discovery from bedside to bench</p> <p>Sponsored by: South Australian Health and Medical Research Institute</p> 
15:45 - 16:30	<p>Student Oral Presentations - Combating disease - Animal models & drug discovery <i>Location: Lecture Theatre B, Level 7, VCCC</i></p> <p>COM-1: Cameron McKnight Using human pluripotent stem cell models of mitochondrial disease to identify candidate drug treatments</p> <p>COM-2: Ece Egilmez Human Cytomegalovirus differentially dysregulates dual-specificity tyrosine phosphorylation-regulated kinases and sonic hedgehog signalling pathway proteins in Astrocytes- A mechanism for virus-induced fetal neural malformation</p> <p>COM-3: Feby Savira Inhibition of apoptosis signal-regulating kinase for cardiorenal syndrome therapy: a proof-of-concept study</p>
16:30 - 17:00	<p>Awards Presentation & Closing Address <i>Location: Lecture Theatre B, Level 7, VCCC</i></p> <p>Gabriel & Kenji - EAPS19 Convenors</p> <p>Sponsored by: Garvan Institute of Medical Research</p> 