

Australian Network of Cardiac and Vascular Developmental Biologists Meeting 2015

December 3-4, UniSA, Adelaide

Thursday December 3

9.00 am Registration

9.30 am Welcome

Session 1: 9.40 am - 12.00 pm Vascular Development *Chair: Natasha Harvey*

- 9.40 – 10.30 am Guillermo Oliver, Feinberg Cardiovascular Institute, Chicago, USA
“The lymphatic vasculature in health and disease”
- 10.30 – 10.55 am Ben Hogan, IMB, University of Queensland, Brisbane
“Cellular and genetic control of zebrafish lymphangiogenesis”
- 10.55 – 11.20 am Mat Francois, IMB, University of Queensland, Brisbane
“Cellular origin of the lymphatic vasculature”
- 11.20 – 11.35 am Jan Kazenwadel, Centre for Cancer Biology, UniSA and SA Pathology, Adelaide
“Defining the role of GATA2 in lymphatic vessel valve development”
- 11.35 – 11.50 am Anne Lagendijk, IMB, University of Queensland, Brisbane
“Live-imaging of intramolecular tension through zebrafish VE-cadherin
uncovers mechanical contributions in cavernous malformation”

Lunch 12.00 pm – 1.00 pm

Session 2: 1.00 pm – 2.45 pm Angiogenesis and Lymphangiogenesis *Chair: Justine Smith*

- 1.00 – 1.25 pm Leigh Coultas, WEHI, Melbourne
“The role of apoptosis in angiogenesis”
- 1.25 – 1.50 pm Emma Gordon, Uppsala University, Uppsala, Sweden
“Malfunction at the junction: Loss of endothelial adaptor molecule TSA_d leads
to arrest of VEGF-induced angiogenic sprouting via aberrant c-Src activation”
- 1.50 – 2.15 pm Claudine Bonder, Centre for Cancer Biology, UniSA and SA Pathology, Adelaide
“Desmoglein-2: an emerging role in neoangiogenesis”
- 2.15 – 2.30 pm Emma Watson, WEHI, Melbourne
“Endothelial cell survival during angiogenesis requires the pro-survival protein
MCL1”
- 2.30 – 2.45 pm Jennifer Wilkinson-Berka, The Burnet Institute, Monash University, Melbourne
“Inhibition of interleukin-17A and retinoic acid-related orphan nuclear
receptor gamma (ROR γ) suppresses neovascular retinopathy: involvement of
microglia”

Coffee 2.45 pm – 3.15 pm

Session 3: 3.15 pm – 5.00 pm The Heart, Vasculature and Disease *Chair: Claudine Bonder*

- 3.15 – 3.40 pm Kazu Kikuchi, Victor Chang Cardiac Research Institute, Sydney
“A subpopulation of T cells promoting tissue regeneration in zebrafish”
- 3.40 – 4.05 pm Peter Psaltis, SAHMRI, University of Adelaide, Adelaide
- 4.05 – 4.30 pm Rob Bryson-Richardson, Monash University, Melbourne
- 4.30 – 4.45 pm Sophie Wiszniak, Centre for Cancer Biology, UniSA and SA Pathology, Adelaide
“Neural crest cell and second heart field interactions orchestrate cardiac outflow tract development”
- 4.45 – 5.00 pm Markus Tondl, Australian Regenerative Medicine Institute, Monash University, Melbourne
“BiTs and pisces; generating a repertoire of cardiac cell type specific regulatory elements”

Posters and Discussion 5.00 pm – 6.30 pm

6.30 pm – Dinner at The Exeter Hotel, Rundle Street

Friday December 4

Session 4: 9.00 am - 10.40 am Cardiac Development *Chair: Ben Hogan*

- 9.00 – 9.50 am Jeroen Bakkers, Hubrecht Institute, Utrecht, The Netherlands
“Spatially resolved transcriptomics to identify regulators of cardiac development and regeneration in zebrafish”
- 9.50 – 10.15 am Kelly Smith, IMB, UQ, Brisbane
- 10.15 – 10.40 am Xiangjian Zheng, Centenary Institute, Sydney
“Micro-CT imaging of cerebral cavernous malformations (CCM) in mouse models”

Coffee 10.40 am – 11.15 am

Session 5 11.15 am – 12.45 pm Cardiac Development and Regeneration *Chair: Quenten Schwarz*

- 11.15 – 11.40 am Gonzalo del Monte, Victor Chang Cardiac Research Institute, Sydney
“Extracellular matrix and sprouting angiogenesis in a new model for heart chamber development”
- 11.40 – 12.05 pm Mirana Ramialison, Australian Regenerative Medicine Institute, Monash University, Melbourne
“Why are cardiac cis-regulatory elements poorly conserved during evolution?”
- 12.05 – 12.30 pm David Elliot, Murdoch Children’s Research Institute, Melbourne
“Pluripotent stem cell models of human heart development and disease”
- 12.30 – 12.45 pm Celine Vivien, University of Queensland, Brisbane
“Xenopus laevis as a new model to study the cardiac regenerative process”

Lunch 12.45 pm – 1.30 pm

Session 6: 1.30 pm – 3.00 pm Stem Cells, Haemopoiesis and the Vasculature *Chair: Leigh Coultas*

- 1.30 – 1.55 pm Samir Taoudi, WEHI, Melbourne
“Haematopoiesis during embryonic development”
- 1.55 – 2.20 pm Phong Nguyen, Australian Regenerative Medicine Institute, Monash University, Melbourne
“Haemopoietic stem cell induction by somite derived endothelial cells”
- 2.20 – 2.45 pm Nathan Palpant, IMB, University of Queensland, Brisbane
“Mechanisms of Cell Fate Determination in Mesoderm Development”
- 2.45 – 3.00 pm Neil Bower, IMB, University of Queensland, Brisbane
“Characterisation of lymphatic development in different vascular beds using zebrafish mutants”

Coffee 3.00 pm – 3.30 pm

Session 7: 3.30 pm – 5.00 pm Cardiac Regeneration *Chair: Kelly Smith*

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| 3.30 – 3.55 pm | Nadia Rosenthal, Australian Regenerative Medicine Institute, Monash University, Melbourne
“Immune control of cardiac repair” |
| 3.55 – 4.20 pm | James Hudson, University of Queensland, Brisbane |
| 4.20 – 4.45 pm | Enzo Porrello, University of Queensland, Brisbane
“Multicellular transcriptome analysis of neonatal heart development and regeneration” |
| 4.45 – 5.00 pm | Awards and Thanks |