

Symposium Program

Melbourne 9-10 October 2017

Timing and presentation titles are subject to change

Day 1: Monday 9 October 2017

9:15-9:30

Opening Ceremony

Prof. Pauline Nestor Vice-Provost (Research), Monash University, Australia

Session I: Evolution and Development (Part 1)

Chair: Dr. Hozana Castillo (Brazilian Biosciences National Laboratory, Brazil and ARMI, Australia)

9:30-10:00

Exploring the Genomes of South American Cyprinidontiform Fish Displaying Unique Life Histories and Developmental Mechanisms

Prof. Miguel Allende (FONDAP Center for Genome Regulation (CGR), Universidad de Chile, Chile)

10:00-10:30

Somite derived cells and the fin to limb transition

Prof. Peter Currie (ARMI, Australia)

10:30-11:00

Regulatory versus Coding Sequences - How Myostatin Evolved in Animals with Different Muscle and Metabolic Phenotypes

Prof. Lucia Alvares (University of Campinas, Brazil)

11:00-11:30

Break

11:30-12:00

Origin of Tetrapods and Fin-to-Limb Transition: Conservation in Developmental Mechanisms

Dr. Murilo Carvalho (Brazilian Biosciences National Laboratory, Brazil)

12:00-12:30

Evolution of the Vertebrate Paired Appendages: Insights from Paddlefish and Catshark

Dr. Frank Tulenko (ARMI, Australia)

12:30-13:30

Lunch

Session II: Evolution and Development (Part 2)

Chair: Dr. Murilo Carvalho (Brazilian Biosciences National Laboratory, Brazil)

13:30-14:00

Mechanisms of Cardiac Chamber Development: the Emergence of an Atrial Gene Network

Dr. José Xavier Neto (Brazilian Biosciences National Laboratory, Brazil)

14:00-14:30

Cis-regulation of Heart Development

Dr. Mirana Ramialison (ARMI, Australia)

14:30-16:00

Poster Session

Day 2: Tuesday 10 October 2017

Session III: Stem Cells and Regeneration

Chair: Dr. Fernando Faunes (Universidad Andres Bello, Chile)

- 9:30-10:00 **Spinal Cord Regeneration in the African Frog *Xenopus Laevis***
Prof. Juan Larraín (Center for Aging and Regeneration, Pontificia Universidad Catolica de Chile, Chile)
- 10:00-10:30 **Identification of the Cellular and Molecular Mechanisms of Zebrafish Spinal Cord Regeneration**
Dr. Hozana Castillo (Brazilian Biosciences National Laboratory, Brazil and ARMI, Australia)
- 10:30-11:00 **Osteopontin is an Important Regulative Component of Foetal BM Haemopoietic Niche**
Prof. Susie Nilsson (ARMI and CSIRO, Australia)
- 11:00-11:30 *Break*
- 11:30-12:00 **Harnessing Pluripotency: Novel Tools for Human Stem Cell Biology**
Assoc Prof. Andrew Laslett (ARMI and CSIRO, Australia)
- 12:00-12:30 **Delivering Morphogens and Immunomodulators to Promote Tissue Regeneration**
Assoc Prof. Mikael Martino (ARMI, Australia)
- 12:30-14:30 *Lunch*

Session IV: Genetic Control of Developmental Mechanisms

Chair: Prof. Juan Larraín (Center for Aging and Regeneration, Pontificia Universidad Catolica de Chile, Chile)

- 14:30-15:00 **Differential tRNA Modification Controls Translational Profiles in Differentiating and Proliferating Cells in *Drosophila***
Assoc Prof. Alvaro Glavic (Universidad de Chile)
- 15:00-15:30 **Novel Gene Regulatory Networks Controlling Axial Elongation and Anterior-posterior Patterning**
Assoc Prof. Edwina McGlenn (ARMI, Australia)
- 15:30-16:00 **The Heterochronic Gene *Lin28* Regulates Amphibian Metamorphosis through Disturbance of Thyroid Hormone Function**
Dr. Fernando Faunes (Universidad Andres Bello, Chile)
- 16:00-16:30 *Break*
- 16:30-17:15 **Roundtable Discussion: How to Capitalize Connections and Support Collaboration?**
Chair: Prof. Abid Khan - Deputy Vice-Chancellor and Vice President (Global Engagement), (Monash University, Australia)
- 17:15-17:30 **Poster Prize Announcement and Closing Remarks**
- 17:30-18:30 **Networking Drinks**