Bosch Institute Annual Scientific Meeting
Regenerative Medicine - Repairing the Damaged Body

Thursday, 20th July, 2017

WELCOME
8:50 AM  Professor Jonathan Stone
Executive Director, Bosch Institute

OPENING REMARKS
8:55 AM  Professor Christopher Murphy
Head of School, School of Medical Sciences

SESSION-1 (9:00 – 10:40 AM):

STEM CELLS AND ORGANOIDS

Chair:  Dr Michael Morris

9:00 AM  Key Note Speaker
Professor Richard Harvey
Developmental and Stem Cell Biology Division, The Victor Chang Cardiac Research Institute
Therapeutic Targeting of Mesenchymal Stem and Stromal Cells in the Adult Mammalian Heart

9:40 AM  Dr Michael O'Connor
School of Medicine, The Western Sydney University
Pluripotent Stem Cell Derived Lenses Model Drug Induced Cataract

10:00 AM  Professor John Rasko AO
Sydney Medical School, The University of Sydney
Gene and Stem Cell Therapy Program, Centenary Institute
Cell & Molecular Therapies, Royal Prince Alfred Hospital
State of the Art in Cell and Gene Therapy

10:20 AM  Professor Ernst Wolvetang
Stem Cell Engineering Group,
Australian Institute for Bioengineering and Nanotechnology
Modeling Childhood Leukodystrophy with iPSC: A Critical Step to Precision Therapy

TEA BREAK & INTERACTION WITH SPONSORS (10:40 – 11:10 AM)
SESSION-2 (11:10 AM – 12:50 PM):

BIONICS AND BIOMATERIALS Chair:

Chair: Professor Rebecca Mason

11:10 AM Key Note Speaker
Professor Melissa Knothe-Tate
*Biomedical Engineering, The University of New South Wales*
*Multiscale Imaging, Computational Modeling and Manufacturing Approaches for Next Generation Regenerative Medicine Therapies*

11:50 PM Professor Tony Weiss
*School of Life and Environmental Sciences, The University of Sydney*
*Building Elastic Tissue: From Lab to Company*

12:10 PM Distinguished Professor Dietmar W. Hutmacher
*Institute of Health and Biomedical Innovation, Queensland University of Technology*
*Engineering a Humanized Bone Organ and Immune System in Mice to Study Bone-related Malignancies*

12:30 PM Associate Professor Jeremy Crook
*ARC Centre of Excellence for Electromaterials Science, Intelligent Polymer Research Institute, AIIM Facility, Innovation Campus, The University of Wollongong*
*Synthetic Biosystems for 3D Modelling of Development, Disease and Regenerative Medicine*

LUNCH BREAK / POSTER SESSION (12:50 – 1:55 PM)

THE DEAN'S WELCOME
1:55 PM Professor Arthur Conigrave
Dean, Sydney Medical School

SESSION-3 (2:00 – 3:20 PM):

CLINICAL TRANSLATION

Chair: Dr Samantha Ginn

2:00 PM Associate Professor Caroline Gargett
*Hudson Institute of Medical Research; Department of Obstetrics and Gynaecology, Monash University*
*Toward Clinical Translation of a Cell-based Therapy for Pelvic Organ Prolapse*
2:20 PM  
Professor Graham Jenkin  
*Hudson Institute of Medical Research; Department of Obstetrics and Gynaecology, Monash University*  
**Use of Gestational Derived Cells for Brain Repair in at Risk Neonates: from Bench to Bedside**

2:40 PM  
Dr Ann Liebert  
*Australasian Research Institute, Sydney Adventist Hospital, Wahroonga*  
**PBM in Tissue Regeneration and Healing: Translational Medicine Implications and Mechanisms**

3:00 PM  
Professor Bernard Tuch  
*Australian Foundation for Diabetes Research, The University of Sydney, Monash University*  
**Bioengineered Devices to Support a Clinical Stem Cell Therapy for Diabetes**

**TEA BREAK & INTERACTION WITH SPONSORS (3:20 – 3:50 PM)**

**SESSION-4 (3:50 – 5:20 PM)**

**TALKS BY BOSCH REBECCA L COOPER and BERCOVICI PRIZE WINNERS & THE HL AND PO BISHOP FELLOWSHIP IN NEUROSCIENCE 2017 – 2019 RECIPIENT**

**Chair:**  Professor Jonathan Stone

3:50 PM  **Rebecca L Cooper Prize and Medal Recipient**  
Dr Jiao Jiao Li  
*Kolling Institute for Medical Research*  
**Efficacy of Novel Synthetic Bone Substitutes in the Reconstruction of Large Segmental Bone Defects in Sheep Tibiae**

4:00 PM  **Bercovici Prize Recipient**  
Rosemary Cater  
*Discipline of Pharmacology, School of Medical Sciences, The University of Sydney*  
**Tuning the Ion Selectivity of Glutamate Transporter-associated Uncoupled Conductances**
4:10 PM  
The HL and PO Bishop Fellowship in Neuroscience 2017 – 2019  
Recipient  
Dr Dario Protti  
Discipline of Physiology, School of Medical Sciences,  
The University of Sydney  
Retinitis Pigmentosa: Understanding the Role of the Cannabinoid System

4:20 PM  
3 MINUTE THESIS PRESENTATIONS & SUMMARY  
Chair: Professor Frank Lovicu

5:00 PM  
PRIZE CEREMONY  
Chair: Professor Jonathan Stone

- 3 Minute Thesis Winner Presentation  
- Young Investigator Poster Prize Presentation  
- Rebecca L Cooper Prize and Medal  
  presented by Mr Steven Rosenstrauss  
  (Director, Rebecca L Cooper Medical Research Foundation)  
- Bercovici Prize  
  presented by Professor Maxwell Bennett  
  (Founding Director, Brain and Mind Research Institute)  
- The HL and PO Bishop Fellowship in Neuroscience 2017 – 2019  
  presented by Dr Roderick Bishop  
  (Director of the Department of Emergency Medicine, Nepean Hospital)

CLOSING REMARKS  
5:10 PM  
Mr Paul Fegan  
Chair, Bosch Institute Advisory Board

5:20– 7:30 PM  
Social Drinks --- Anderson Stuart Building