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

Thursday, 20th July, 2017

REGISTRATION    8:00am – 8:45am

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

OPENING REMARKS
8:55 AM    Professor Christopher Murphy
            Associate Dean and Head, 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: Professor Rebecca Mason

Speakers:

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 – 2:00 PM)

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 WINNER**

**Chair:**  TBA

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 – 6:30 PM  Social Drinks --- Anderson Stuart Building