

## Conference Program: Day 1 (*Thursday 4 February*)

### Thursday 4 February

- 9.30-10.30 Coffee / Registration
- 10.30-10.35 **Welcome Day 1 – Mike Lawrence, The Walter and Eliza Hall Institute of Medical Research**
- 10.35-12.10 **Session 1 – IGFs and Insulins in Cancer I**  
(*chair: Rob Baxter*)
- 10.35-11.00 **Tim Adams**  
CSIRO, Parkville  
*Title: Differential sensitivity of human hepatocellular xenografts to an IGF-II neutralising antibody may involve activated STAT3*
- 11.00-11.25 **Janet Martin**  
Kolling Institute of Medical Research, University of Sydney  
*Title: Targeting an IGF1R-3 signalling pathway for the treatment of triple-negative breast cancers*
- 11.25-11.55 **Colleen Nelson**  
Faculty of Health, Queensland University of Technology  
*Title: The role of insulin in prostate cancer progression*
- 11.55-12.10 **Aleksandra Ochnik**  
Kolling Institute of Medical Research, University of Sydney  
*Title: Insulin-like growth factor receptor and sphingosine kinase co-expression in breast cancer*
- 12.10-13.00 **Lunch**
- 13.00-14.20 **Session 2 – Novel Insulins I - sponsored by The Walter & Eliza Hall Institute of Medical Research**  
(*chair: Mike Lawrence*)
- 13.00-13.50 **Mike Weiss**  
Department of Biochemistry, Case Western Reserve University, Cleveland Ohio, USA  
*Title: Foldability and toxic protein misfolding: an implicit constraint on the evolution of insulin-like sequences*
- 13.50-14.20 **Margaret Brimble**  
Schools of Chemical Sciences and Biological Sciences, The University of Auckland  
*Title: Development of peptide and peptidomimetic therapeutic agents from a New Zealand perspective*
- 14.20-14.25 **Short break**

## Conference Program: Day 1 (*cont.*)

### 14.25 – 15.25 Session 3 – Student Session

(chair: Ray Norton)

#### 14.25-14.40 **Shee Chee Ong**

School of Medicine, Flinders University

*Title: Dicarba insulin analogues: Novel observations of the critical role of insulin A6-A11 disulfide bond*

#### 14.40-14.55 **Henry Wittler**

La Trobe Institute for Molecular Science, La Trobe University

*Title: Molecular Dynamics and Binding of Insulin and Analogues*

#### 14.55 -15.10 **Callum Lawrence**

Structural Biology Division, The Walter & Eliza Hall Institute of Medical Research

*Title: Structural analysis of an insulin receptor agonist interacting with the receptor's ectodomain*

#### 15.10-15.25 **Anastasios Papaioannou**

School of Physics and Charles Perkins Centre, The University of Sydney

*Title: New insights into insulin activation for initial docking to the IR using MD simulations*

### 15.25 – 15.50 Afternoon Tea

### 15.50- 16.50 Session 4 – Insulin and IGF action in diabetes

(chair: Briony Forbes)

#### 15.50-16.20 **Tailoi Chan-ling**

School of Medical Sciences, The University of Sydney

*Title: IGFs and their binding proteins in retinal vascular function: normal development and disease processes*

#### 16.20–16.50 **Daniel Fazakerley**

School of Molecular Bioscience, The University of Sydney

*Title: Discovering novel regulators of adipocyte insulin sensitivity*

### 16:50-18.00 Canapes and Student Awards - sponsored by Australian Peptide Association

### 18:00 Dinner at local restaurants

## Conference Program – Day 2 (*Friday 5 February*)

### Friday 5 February

- 8.30-9.00 Coffee
- 9.00-9.05 **Welcome Day 2 – Briony Forbes, Flinders University**
- 9.05-10.35 **Session 5 – IGFs and Insulins in Cancer II - sponsored by GroPep Bioreagents**  
(Chair: Janet Martin)
- 9.05-9.35 **Zee Upton**  
Institute of Medical Biology, Agency for Science, Technology and Research, Singapore  
*Title: Novel peptide-based inhibitors of IGF-I-ECM induced breast cancer cell functions*
- 9.35-10.00 **Rob Baxter**  
Kolling Institute of Medical Research, University of Sydney  
*Title: Novel IGFBP-3 binding partners in the breast cancer response to DNA damaging chemotherapy*
- 10.00-10.30 **Yvonne Jones**  
Division of Structural Biology, University of Oxford  
*Title: IGF-II and the IGF-2R: taking stock from a current perspective*
- 10.30-11.00 **Morning Tea**
- 11:00-13.00 **Session 6 – IGFs in Growth and Development**  
(chair: Briony Forbes)
- 11.00-11.30 **Toby Coates**  
Kidney and Pancreatic Islet Transplantation, University of Adelaide  
*Title: Prolongation of Pancreatic Islet function and Islet Transplantation with IGF-II*
- 11.30-12.00 **Marie-Liesse Asselin-Labat**  
Laboratory Head, Stem Cells and Cancer Division, Walter and Eliza Hall Institute of Medical Research  
*Title: IGF1 and the regulation of lung stem cells*
- 12.00-12.30 **Alex Pinto**  
Australian Regenerative Medicine Institute, Monash University  
*Title: Macrophage-derived IGF-1 in cardiac development and homeostasis*
- 12.30-13.00 **Claire Roberts**  
Robinson Research Institute, School of Medicine, University of Adelaide  
*Title: IGFs in human placenta and pregnancy outcome*
- 13.00-14.00 **Lunch**

## **Conference Program: Day 2 (cont.)**

### **14.00 –15.20 Session 7 – Novel Insulins II**

*(chair: John Wade)*

#### **14.00-14.30 Ray Norton**

Department of Medicinal Chemistry, Monash Institute of Pharmaceutical Sciences

*Title: Insulin as a weapon of prey capture in fish-hunting cone snails*

#### **14.30-15.00 John Karas**

Florey Institute for Neuroscience & Mental Health

*Title: Replacement of Cystine with Cystathionine in Insulin: Synthesis and Characterization*

#### **15.00-15.20 Briony Forbes**

Department of Medicine, Flinders University

*Title: Novel recombinant and synthetic IGF-II probes as tools for analyzing receptor binding using FRET*

### **15.20-16:00 Afternoon Tea and Conclusion**

### **16:00 Departure**