



## *Provisional Programme*

### **Friday 19<sup>th</sup> September - Adelaide Convention Centre**

- 8:15 - 8:45 Registration (Convention Centre Foyer)  
8:45 - 9:00 Hall C - International Society for Toxinology (IST)'s Redi Award Ceremony  
9:00 - 9:50 Hall C - IST Lecture (*International recipient to be announced in above ceremony*)

#### **ASB Invited Plenary Lecture Hall C**

- 9:50- 10:30 **Shin-Ho Chung**  
*"Modelling of Ion channel Gating and Permeation"*
- 10:30 – 11:00 Morning Tea & Posters – Foyer (N.B. Posters should remain up all day)
- 11:00 – 11:40 Posters – Foyer (In conjunction with IST posters)

#### **ASB Symposium 1: Protein structure and interactions – Room 1**

- 11:40 – 12:05 Dick Wettenhall  
Dept of Biochemistry and Molecular Biology, University of Melbourne  
*"Post-translational modifications"*
- 12:05 – 12:30 Michael Parker  
Biota Structural Biology Laboratory, St. Vincent's Institute of Medical Research,  
Melbourne, Victoria  
*"Insights into Receptor Signalling Revealed by Crystallographic Studies"*
- 12:30 – 12:55 Chris Bagely  
Head, Protein Laboratory, Hanson Institute, IMVS, Adelaide SA  
*"Protein structure"*
- 13:00 – 14:00 Lunch (provided in Convention Centre)

Friday 19<sup>th</sup> Sept. Convention Centre (cont)

**ASB Oral Presentations Session 1: Ion channels – Room 1**

- 14:00 – 14:20 O1: B. Martinac (School of Medicine and Pharmacology, Université Paris-Sud.)  
*Structural and functional dissection of the mechanosensitive channel MSCL*
- 14:20 – 14:40 O2: Louise J Brown (School of Physics, University of NSW)  
*Insertion of the chloride ion channel CLIC1 into phospholipid membranes*
- 14:40 – 15:00 O3: P.H. Barry (School of Medical Science, University of NSW)  
*Mutant glycine receptor channels, with reversed ion charge selectivities and analysis of their anion-cation permeabilities*
- 15:00 – 15:20 O4: G.Y. Rychkov (Department of Physiology, University of Adelaide) *Mechanism of the fast inactivation of the Ca<sup>2+</sup> release activated Ca<sup>2+</sup> channel*
- 15:30 – 16:00 Afternoon Tea & Posters – Foyer

**ASB Oral Presentations Session 2: Protein structure and function – Room 1**

- 16:00 – 16:20 O5: P.D.J. Moens (School of Biological, Biomedical & Molecular Sciences, The University of New England)  
*Dimerization mode of T. Maritima ribosomal stalk proteins L12 in solution*
- 16:20 – 16:40 O6: A.C.F. Coster (School of Mathematics, University of NSW)  
*Insulin dependence of glucose transporter GLUT4 in adipocytes*
- 16:40 – 17:00 O7: J.E. Gready, (John Curtin School of Medical Research, ANU)  
*Conformation of prion protein repeat peptides probed by FRET measurements and MD simulations*
- 17:00 – 17:20 O8: Klonis N. (Department of Biochemistry, La Trobe University)  
*Fluorescence photobleaching techniques on the confocal microscope for the examination of protein and cellular dynamics*

## **Saturday 20<sup>th</sup> Sept. - Department of Physiology University of Adelaide**

### **Hone Lecture Theatre, Medical School South**

9:30 - 10:30      **Bob Robertson Award and Lecture (Chair: Peter Barry)**  
*Recipient to be announced*

10:30 – 11:00      Morning tea

### **ASB Symposium 2: Radiation and biological tissues**

11:00 – 11:30      Tim Van Doorn  
Royal Adelaide Hospital, Adelaide, SA  
*"Protons"*

11:30 – 12:00      Derek Abott  
Director, Centre for Biomedical Engineering, The University of Adelaide  
*"TRays"*

12:00 – 12:30      Setayesh Behin-Ain  
Nuclear Medicine Department, Queen Elizabeth Hospital, Adelaide SA  
*"Single photon detection in time-resolved transillumination imaging"*

12:30 – 14:00      Lunch

### **Oral Presentations Session 3: Reactivity**

14:00 – 14:15      O9: W. Hillier (Departments of Chemistry, Departments of Biochemistry, Michigan State University)  
*FTIR Difference Spectra of Cytochrome c Oxidase Reveal a Coupling of Histidine in the Reduction Cycle*

14:15 – 14:30      O10: Cyril C Curtain (Department of Pathology, The University of Melbourne, and The Mental Health Research Institute of Victoria & School of Physics and Materials Engineering, Monash University) *H<sub>2</sub>O<sub>2</sub> production is central to the neurotoxicity of the **b**-amyloid peptide from alzheimer's disease; the role of a tyrosine free radical in electron transfer*

14:30 – 14:45      O11: W. S. Chow (Photobioenergetics Group, Research School of Biological Sciences, Australian National University)  
*Electron fluxes through photosystem 1 in cucumber leaf discs probed by far-red light*

14:45 – 15:00      O12: Javier G Fernández-Velasco (Department of Plant and Microbial Biology. University of California)  
*A new catalytic site in the cytochrome b<sub>6</sub>f complex of chlamydomonas reinhard TII*

15:00 - 15:30      Afternoon Tea

Saturday 20<sup>th</sup> Sept. Hone Lecture Theatre, Adelaide University (cont)

#### **Oral Presentations Session 4**

- 15:30 – 15:45 O13: G.P. Jones (School of Agriculture and Wine, The University of Adelaide)  
*Anthocyanin Charge Equilibria and pKa's by Electrophoresis: A new view of the colour of wine and roses*
- 15:45 – 16:00 O14: Jocelyn E Morrison (Department of Botany, School of Life Sciences, The University of Queensland)  
*Surface properties of leaves monitored with the new imaging-pam*
- 16:00 – 16:15 O15: H.G.L. Coster (UNESCO Centre for Membrane Science and Technology, Department of Biophysics, School of Physics)  
*Bilayers on silicon*
- 16:15 – 16:30 O16: T.C. Chilcott (UNESCO Centre for Membrane Science and Technology, Department of Biophysics, School of Physics)  
*Bio-functionalising and Passivating Silicon*
- 17:00 **Closing Comments and Awards**: Peter Barry
- 17:30 **Annual General Meeting**
- 19:00 **Conference Dinner**

*For other information and updates, visit our website at:*

<http://www.biophysics.org.au/>