

# MOLECULAR PHARMACOLOGY OF AMINO ACID TRANSMITTERS: FROM CRYPTIC TO CONTEMPORARY DRUG TARGETS

**Badham 3, Faculty of Pharmacy, A15 The University of Sydney  
November 28th & 29th, 2009**

## Day 1

### **Plenary lecture**

1.00 PM - Wolfgang Froestl - GABA Receptors and Neuropharmacology  
[Chair Mary Collins]

### **GABA systems and their pharmacology**

[Chair Jane Hanrahan]

1.45 PM - Peter Schofield - Now I know my A, B, C: the cloning and characterisation of the GABA receptor

2.05 PM - Mary Collins - GABA<sub>C</sub> receptors – are they as simple as “ABC”?

2.25 PM - Lindy Rae - The “ABC” of GABA: awfully bloody complex

### **2.45– 3.05 PM – Refreshment break**

### **GABA systems and their pharmacology (continued)**

[Chair Vladimir Balcar]

3.05 PM - Katherine Locock - Novel GABA<sub>C</sub> antagonists through bioisosteric modification of 4-aminocyclopent-1-enecarboxylic acid

3.15 PM - Hye-Lim Kim - Cognitive enhancement by selective GABA<sub>C</sub> receptor antagonists

3.25 PM - Jane Hanrahan - From amino acids to flavonoids

3.45 PM - Rujee Duke - Gingko, GABA and bees

4.00 PM - Marie Gibbs - A, B and C: roles for GABA in learning and memory in chicks

4.20 PM - Andrew Gundlach – “Hypo-glycine-aemia” to “relaxin” - a journey from obscurity to uncertainty

### **4.40 – 5.00 PM – Refreshment break**

### **Amino Acids in Way, Shape or Form**

[Chair Bevyn Jarrott]

5.00 PM - Roger Summers - G Protein-Coupled Receptors are merely an assembly of amino acids

5.20 PM - John Rostas - CaMKII: an adaptor mediating cross-talk between signalling pathways

5.40 PM - Aven Lee - Expression of new EAAT5 variants in the mammalian retina

5.50 PM - Mike Minchin - GABA and Graham

6.05 PM - Les Davies - Amino acids: tales of the occult and unexpected

6.20 PM - Ian Hendry - Trophic interactions with GARJ

## **6.40 PM - Drinks and refreshments**

### **DINNER 7.45 PM**

### **Day 2**

#### **Plenary lecture**

9.00 PM - David Lodge - Glutamate/aspartate receptor journeys: personal tales from Down-Under and back-home.

[Chair Phil Beart]

#### **L-Glutamate systems and their pharmacology**

[Chair Les Davies]

9.45 PM - Vladimir Balcar - Glutamate transport: a fatal attraction or just a distraction?

10.05 PM - Rob Vandenberg - The interplay between ion coupling and the pharmacological properties of glutamate transporters

10.25 PM - Peter Dodd - Drinking more than your doctor

10.45 PM - Rob Allan - Constraining L-glutamate

### **11.00 - 11.30 PM - Refreshment break**

#### **Neurochemistry of injury and disease**

[Chair Roger Summers]

11.30 PM - David Pow - Glutamate homeostasis and ischaemia

11.50 PM - Andrew Lawrence - The mGlu5 receptor, drug-seeking and drug-induced plasticity

12.10 PM - Bevyn Jarrott - The pharmacologist's prayer: "deliver us from brick dust and promiscuous inhibitors"

12.25 PM - Phil Beart - So many molecular targets: neuropharmaceuticals, excitotoxicity and neuroprotection

12.40 PM - Graham Johnston - GABA: thinking outside the brain

### **CONCLUSION**