



# ABSTRACT SUBMISSION IN NEUROSCIENCES

250 Word Limit -- Poster Prizes Awarded  
Deadline August 10

## 5th A&PD Symposium

# MECHANISMS IN NEURODEGENERATION

Thursday, August 25, 2011 - Friday, August 26, 2011

Brain and Mind Research Institute  
88 Mallett Street, Camperdown NSW

Hosted by: *Alzheimer's & Parkinsons Disease Laboratory*  
Uncovering the mysteries of neurodegenerative disease

For more information please contact Natalie Chan on 9351 0929 or [natalie.chan@sydney.edu.au](mailto:natalie.chan@sydney.edu.au)



brain&mind  
RESEARCH INSTITUTE



## PROGRAM: Thursday afternoon session (August 25<sup>th</sup>)

- 12:00 noon Coffee & registration  
1:00 pm Welcome, Jürgen Götz (BMRI, Sydney)

### Session 1 chaired by Glenda Halliday

- 1:05 pm Steve Collins (The University of Melbourne, Melbourne)  
Our evolving understanding of the relationship and pathogenic significance between prion propagation and oxidative stress to cellular demise
- 1:25 pm Michael Lardelli (The University of Adelaide, Adelaide)  
What evolution is telling us about genes involved in Alzheimer's disease
- 1:45 pm Steven Petrou (The Howard Florey Institute, Melbourne)  
Genetic and functional origins in epilepsies
- 2:05 pm Perminder Sachdev (UNSW, Sydney)  
Plasma biomarkers of mild cognitive impairment and dementia
- 2:25 pm Lizzie Coulson (UQ, Brisbane)  
Mechanism's and measurement of the neuronal degeneration in Alzheimer's disease
- 2:45 pm Coffee break & posters

### Session 2 chaired by Steven Petrou

- 3:30 pm David Holtzman (Washington University School of Medicine, USA)  
Role of endogenous neuronal activity in regulating selective vulnerability to amyloid-beta levels in pathology
- 4:10 pm Glenda Halliday (Neuroscience Research Australia, Sydney)  
Changes in the solubility and phosphorylation of alpha-synuclein over the course of Parkinson's disease
- 4:30 pm Manuel Graeber (BMRI, Sydney)  
Alois Alzheimer's original cases and the search that led to their rediscovery.
- 4:50 pm Drinks & posters
- 

## PROGRAM: Friday morning Session (August 26<sup>th</sup>)

- 8:30 am Coffee & donuts

### Session 3 chaired by Karen Duff

- 9:00 am Bryce Vissel (Garvan Institute, Sydney)  
Approaches to block degeneration and stimulate CNS repair
- 9:20 am Pankaj Sah (UQ, Brisbane)  
Cell death and its behavioural consequences – the role of P75
- 9:40 am Kevin Barnham (The University of Melbourne, Melbourne)  
Neurodegeneration and metals: Novel therapeutic strategies
- 10:00 am Tracey Dickson (UTAS, Tasmania)  
Axonal pathologies in Alzheimer's disease
- 10:20 am Coffee break

### Session 4 chaired by Pankaj Sah

- 11:00 am Karen Duff (Columbia University Medical Centre, USA)  
Pathogenic mechanisms in tauopathies
- 11:40 am Gerald Muench (UWS, Sydney)  
Effect of inflammatory activation on the neurosupportive functions of astroglia
- 12:00 pm Ralph Martins (Edith Cowen University, Perth)  
Role of testosterone in the prevention and treatment of Alzheimer's Disease
- 12:20 pm Announcement of poster prize
- 12:30 pm Lars Ittner (BMRI, Sydney): Thank you and invitation to on-site lunch