



# A&PD Symposium

Prof. Jürgen Götz & Dr. Lars Ittner  
Under the auspices of 'Brain and Mind Australia'

NOVEL TECHNOLOGIES AND STRATEGIES TO  
DISSECT PATHOMECHANISMS IN ALZHEIMER'S  
AND PARKINSON'S DISEASE

Monday October 15th, 2007. 8:30am - 4:40pm

@ the Brain & Mind Research Institute (BMRI)  
100 Mallett Street, Camperdown NSW



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



**brain&mind**  
RESEARCH INSTITUTE

# A&PD Symposium Prof. Jürgen Götz & Dr. Lars Ittner

## PROGRAM

08.30-09.00 Coffee and Donuts

### Novel technologies

**Chair: A/Prof Roberto Cappai**

09.00-10.00 Plenary lecture

Prof Michael Przybylski (University of Constance, Germany)

(a) New methods and developments of mass spectrometric proteomics

(b) New approaches for immunotherapy and diagnosis of neuro-degenerative diseases

Professor Przybylski is a world expert in mass spectrometry (such as LA-ICPMS and MALDI-FTICR-MS). He is the recipient of many prestigious awards (including a Dr. honoris causa from the University of Iasi), authored more than 260 publications, owns 20 patents and is on the editorial board of six international journals. Michael Przybylski is Chairman of the German Society for Mass Spectrometry since 1998 and Guest Professor of the Chinese Academy of Sciences since 2000.



10.00-10.20 Dr. Kay Double (POWMRI, University of New South Wales, Randwick): Use of synchrotron chemical X-ray microscopy to study the metallobiology of neuromelanin in the human brain

10.20-10.40 A/Prof. Michael Kassiou (BMRI, University of Sydney, Sydney): Molecular probes for neurodegenerative diseases

10.40-10.55 Dr. Andreas Wiesner (BMRI, University of Sydney, Sydney): Characterisation of the proteome in the synapse of AD mouse models

Coffee Break

**Chair: Dr. Bryce Vissel**

11.20-11.40 Dr. Michael Dobbie (Australian Phenomics Facility, JCSMR, ANU, Canberra): Using ENU-mutagenesis in the mouse to link genes and function

11.40-11.55 Dr. Claire Goldsbury (BMRI, University of Sydney, Sydney): Multiple assembly pathways of amyloid-beta fibrils and oligomers revealed by a combination of microscopy methods

11.55-12.10 Dr. Nicole Schonrock (BMRI, University of Sydney, Sydney): microRNA profiling of neurodegenerative diseases

12.10-12.25 Dr. Pdraig Strappe (BMRI, University of Sydney, Sydney): Lentiviral vector based gene delivery to the CNS

12.25-12.35 Yazi Ke (BMRI, University of Sydney, Sydney): Primary low-density neuronal cultures

Lunch on site

### Pathomechanisms

**Chair: Prof. Glenda Halliday**

13.30-13.50 A/Prof. Roberto Cappai (University of Melbourne, Melbourne): Molecular determinants of amyloid beta toxicity in Alzheimer's disease

13.50-14.10 Dr. Bryce Vissel (Garvan Institute, Darlinghurst): Regulation of neurogenesis in hippocampal injury model

14.10-14.30 A/Prof. Edna Hardeman (Children's Medical Research Institute, CMRI, Westmead): Altered sociability, motor learning deficits and decreased seizure susceptibility in Gtf2ird1 null mice: implications for Williams Beuren syndrome

14.30-14.40 Andrea Lim (BMRI, University of Sydney, Sydney): Is Alzheimer's Disease a Type 3 diabetes mellitus?

14.40-14.50 Laita Bokhari (BMRI, University of Sydney, Sydney): Retinal ganglion cells and the study of neurotrophins in tau pathology

14.50-15.00 Natasha Deters (BMRI, University of Sydney, Sydney): Mapping tau phosphorylation patterns of P301L mutant tau mice: a model for Alzheimer's disease

15.00-15.20 Coffee break

**Chair: A/Prof. Edna Hardeman**

15.20-15.40 Prof. Glenda Halliday (POWMRI, University of New South Wales, Randwick): Myelin proteins in Multiple System Atrophy

15.40-16.00 Dr. Jasmine Henderson (Bosch Institute, University of Sydney, Sydney): Pre clinical evaluation of a novel NMDA antagonist for parkinsonism

16.00-16.15 Dr. Damian Holsinger (Discipline of Biomedical Science, BMRI, University of Sydney, Sydney): BACE1 as a target for Alzheimer's therapy

16.15-16.35 Dr. Gerald Muench (James Cook University, Townsville): Targeting inflammation in Alzheimer's disease

## NOVEL TECHNOLOGIES AND STRATEGIES TO DISSECT PATHOMECHANISMS IN ALZHEIMER'S AND PARKINSON'S DISEASE

Monday October 15th, 2007 @ the Brain & Mind Research Institute (BMRI)  
100 Mallett Street, Camperdown NSW

Registration Form (for catering purposes - no charge)  
Please fax completed form to 02 9351 0652 or  
email: [jgoetz@med.usyd.edu.au](mailto:jgoetz@med.usyd.edu.au)

Name	
Department	
Position	
Organisation/Institute	
Phone number	
Fax number	
Email address	

*Alzheimer's & Parkinsons Disease Laboratory - Uncovering the mysteries of neurodegenerative disease*