THE UNIVERSITY OF BRITISH COLUMBIA
DEPARTMENT OF PSYCHIATRY
24TH ANNUAL RESEARCH DAY
THURSDAY, JUNE 4, 2009
PROGRAM AGENDA

11:30 – 12:15 **REGISTRATION AND LUNCH**

12:15 Opening Address – Welcome - Dr. Lakshmi Yatham

12:30 – 1:30 **ORAL PRESENTATIONS – BASIC SCIENCE (10 min. presentation 5 min. discussion)**

Dr. Brian MacVicar - Chair

12:30 – 12:45 The acute effects of atypical antipsychotic drugs on glucose tolerance in an animal model
Presenter: Heidi Boyda
Graduate Student, Faculty of Medicine
Anesthesiology, Pharmacology and Therapeutics

Faculty Sponsor: Ric M. Procyshyn

12:45 – 1:00 In vivo imagining of bilateral synchronous waves of spontaneous activity, preferred routes of information flow and their regulation by brain states and sensory experience
Presenter: Majid H. Mohajerani
Postdoctoral Research Fellow

Faculty Sponsor: Timothy H. Murphy

1:00 – 1:15 Altered expression of the cell adhesion protein Neuroligin 1 is related to Social Deficits in FMR1 -/- mice, a model for the Fragile X Syndrome
Presenter: Regina Dahlhaus
Postdoctoral Research Fellow

Faculty Sponsor: Alaa El-Husseini, Steve Vincent, Yu Tian Wang

1:15 – 1:30 Dynamic modulation of palmitoylation at the synapse
Presenter Rujun Kang
Research Fellow

Faculty Sponsor Lynn Raymond, Steve Vincent

1:30 – 2:45 **ORAL PRESENTATIONS – CLINICAL (10 min. presentation 5 min. discussion)**

Dr. William Honer - Chair

1:30 – 1:45 Decreased mitochondrial complex 1 activity and increased oxidative damage to proteins in the postmortem prefrontal cortex of subjects with bipolar disorder.
Presenter Ana Cristina Andreazza
Postdoctoral Research Fellow

Faculty Sponsor L. Trevor Young

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ORAL PRESENTATIONS (cont'd)

1:45 – 2:00 Which depressive symptoms predict impairments in work performance?
Presenter: Christopher M. Robertson
PGY-4 Psychiatry

Faculty Sponsor Raymond W. Lam

2:00 – 2:15 Four years of mistakes: An examination of error-processing in schizophrenia
Presenter Alan Bates
PGY-1 Psychiatry

Faculty Sponsor William Honer, Elton Ngan

2:15 – 2:30 Effect of gender role socialization in the presentation and diagnoses of major depression among men
Presenter Jennifer K. Wide
PGY-3 Psychiatry
Faculty Sponsor John Ogrodniczuk, Hiram Mok

2:30 – 2:45 Evidence for aberrant structure and function in schizophrenia
Presenter: Liang Wang
Postdoctoral Research Fellow

Faculty Sponsor: Todd Woodward

2:45 – 3:15 AFTERNOON BREAK

3:15 – 4:15 FACULTY PRESENTATIONS (15 min. presentation 5 min. discussion)
Dr. L. Trevor Young - Chair

3:15 – 3:35 Jehannine Austin – Translating psychiatric genetics research into clinically meaningful interventions

3:35 – 3:55 Lakshmi Yatham – Bipolar disorder: Bedside to brain imaging

3:55 – 4:15 Elton Ngan – Re~~De~~fining "Delusions"

4:15 – 5:15 PLENARY GUEST LECTURE (45 min. presentation 15 min. discussion)
Dr. Martha Donnelly - Chair

Speaker: Dr. Ken Shulman, University of Toronto – Early detection of dementia: Promises and Practicalities

5:15 – 5:45 PRENARY GUEST LECTURE - Tribute to honour Dr. Peter McLean (20 min. presentation 10 min. discussion)
Dr. L. Trevor Young - Chair

Speaker: Dr. Stanley Rachman

5:45 – 6:00 CONCLUSION AND WRAP UP

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6:00 – 7:00 p.m. POSTER PRESENTATION and RECEPTION (snacks and beverages)

BASIC SCIENCE POSTERS

1. Motor mapping with light using transgenic mice expressing Channelrhdopsin-2 reveals sensory and motor cortex interactions.
   Presenter: Oliver Ayling, M.Sc. Student
   Faculty Sponsor: Tim Murphy

2. Effects of two antipsychotic medications on striatal SNARE protein levels and SNARE interactions.
   Presenter: Vilte Barakauskas, Graduate Student
   Faculty Sponsor: Bill Honer

3. Stress-evoked dopamine release is altered in the medial prefrontal cortex of rats prenatally exposed to alcohol: Implications for hypothalamic-pituitary-adrenal (HPA) axis dysregulation in depression.
   Presenter: Kelly Butts, Undergraduate Assistant
   Faculty Sponsor: Allan H. Young, Anthony G. Phillips

4. Disruption of regulated-AMPA receptor endocytosis attenuates behavioural and neurochemical sensitization to repeated amphetamine
   Presenter: Fiona Y. Choi, Graduate Research Assistant
   Faculty Sponsor: Anthony Phillips, Yu Tian Wang

5. Increased extrasynaptic localisation of NMDA receptors in a Huntington's Disease mouse model
   Presenter: Clare Gladding, Postdoctoral Fellow
   Faculty Sponsor: Lynn Raymond

6. Medial prefrontal cortex is a universal encoding area: No differences found in unit or population activity between simple and complex tasks
   Presenter: James Hyman, Postdoctoral Research Fellow
   Faculty Sponsor: Jeremy K. Seamans

7. Using interference peptides to alter NLG2 interactions *in vitro* and *in vivo*
   Presenter: Parisa Karimi Tari, Undergraduate Student
   Faculty Sponsor: Alaa El-Husseini, Yu Tian Wang

8. Activity-regulated AMPA receptor endocytosis plays different roles in instrumental habit learning.
   Presenter: Liya Ma, Ph.D. student
   Faculty Sponsor: Anthony Phillips, Yu-Tian Wang

BASIC SCIENCE POSTERS (cont'd)

9. Evidence for augmented extrasynaptic NMDA receptor signalling in a transgenic mouse model of Huntington's disease
   Presenter: Austen Milnerwood, Postdoctoral Research Fellow
   Faculty Sponsor: Lynn A. Raymond

10. In vivo two-photon imaging of dendritic structural alterations during transient global ischemia during local cortical hypothermia
    Presenter: Sherri Tran, Undergraduate Student
    Faculty Sponsor: Tim Murphy

11. The chronic effects of olanzapine on glucose tolerance in an animal model
    Presenter: Lurdes Tse, Undergraduate Student
    Faculty Sponsor: Ric Procyshyn

12. The role of inducible nitric oxide: A plausible mechanism for antipsychotic-induced hyperglycemia.
    Presenter: Daniel Wong, Pharmacology co-op Student
    Faculty Sponsor: Ric Procyshyn

13. The mood stabilizing drug lithium increases nuclear levels of the transcription factor Nrf-2 *in vitro*
    Presenter: Joshua Rizak, Graduate Research Assistant
    Faculty Sponsor: Jun-Feng Wang

14. Control of RCAN1 expression by translation initiation and its role in Neurodegeneration
    Presenter: Yili Wu, Postdoctoral Research Fellow
    Faculty Sponsor: Weihong Song

15. In vivo voltage sensitive dye imaging reveals bi-hemispheric functional changes following focal infarct to the forelimb somatosensory cortex of mice
    Presenter: Khatereh Aminoltejari, M.Sc. Student
    Faculty Sponsor: Tim Murphy

16. The acute effects of atypical antipsychotic drugs on glucose tolerance in an animal model
    Presenter: Heidi Boyda, Graduate Student
    Faculty Sponsor: Ric Procyshyn

17. Coexpression based gene discovery in the post-synaptic proteome
    Presenter: Jesse Gillis, Postdoctoral Research Fellow
    Faculty Sponsor: Paul Pavlidis

BASIC SCIENCE POSTERS (cont'd)

18. Chronic light-based mapping of the motor cortex
Presenter: Thomas Harrison, Graduate Student, B.Sc.
Faculty Sponsor: Tim Murphy

CLINICAL POSTERS

1. Persistent antipsychotic polypharmacy and excessive dosing in the community psychiatric treatment setting
Presenter: Rebecca Ko, Undergraduate Student
Faculty Sponsor: Ric Procyshyn

2. Measuring internalized stigma in first-degree family members of people with severe mental illness.
Presenter: Emily Morris, Undergraduate Student
Faculty Sponsor: Jehannine Austin, Catriona Hippman

3. Computer/gaming station use in youth with psychiatric disorders
Presenter: Elliott Bogusz, 3rd year medical student
Faculty Sponsor: Susan Baer

4. Quality of life amongst chronically mentally ill adults on Vancouver's downtown east side across a variety of dwelling situations
Presenter: Ed Durgan, ISGP PhD. Student
Faculty Sponsor: Erin Michalak

5. Mood monitoring in bipolar disorder: A hand-held computer intervention
Presenter: Erica Amari, Research Coordinator
Faculty Sponsor: Erin Michalak

6. Reduced frontal activation in schizophrenia patients during processing of disconfirmatory evidence.
Presenter: Patrick Carolan, Intern Research Assistant
Faculty Sponsor: Todd Woddward

7. Examination of dopamine and 6-hydroxydopamine in bipolar disorder brain
Presenter: Jeremy W. Gawryluk, Postdoctoral Research Fellow
Faculty Sponsor: L. Trevor Young

8. Proton pump inhibitors reduce human microglia and THP-1 cell neurotoxicity
Presenter: Sadayuki Hashioka, Postdoctoral Research Fellow
Faculty Sponsor: Patrick L. McGeer

CLINICAL POSTERS (cont'd)

9. "It's something that I manage but it is not who I am". Reflections on self-management strategies and stigma in bipolar disorder.
   Presenter: Candace Haddock, MD Undergraduate Student
   Faculty Sponsor: Erin Michalak

10. Periventricular white matter diffusion parameters and salivary cortisol levels in euthymic bipolar patients and in control subjects.
    Presenter: Karine Macritchie, Postdoctoral Research Fellow
    Faculty Sponsor: Allan H. Young

11. Development of cognitive functions that depend on the frontal lobe in children whose mothers have bipolar disorder.
    Presenter: Karine Macritchie, Postdoctoral Research Fellow
    Faculty Sponsor: Allan H. Young

12. Cross-laboratory comparison of human post-mortem brain expression profiling data
    Presenter: Meeta Mistry, Graduate Research Assistant
    Faculty Sponsor: Paul Pavlidis

13. Using nail cortisol to measure accumulated stress hormones in male and female students
    Presenter: Danielle Seim, Research Assistant
    Faculty Sponsor: Allan H. Young

14. Risk Assessment in Youth
    Presenter: Muniza Shah, Current Forensic Psychiatry Fellow
    Faculty Sponsor: Johann Brink, Tonia L. Nicholls

15. Traumatic brain injury in a forensic psychiatric sample
    Presenter: Simone Viljoen, Graduate Student
    Faculty Sponsor: Johann Brink, Tonia Nicholls

16. Multimodal imaging study of the thalamus in first-episode psychosis
    Presenter: Fidel Vila-Rodriguez, Clinical Research Fellow
    Faculty Sponsor: William Honer

17. Increased NF-κB signalling upregulates *BACE1* expression in Alzheimer's disease
    Presenter: Yu Deng, Research Scientist
    Faculty Sponsor: Yigang Tong, Weihong Song

CLINICAL POSTERS (cont'd)

18. Psychotic symptoms and brain volumes in first episode patients with bipolar disorder: Is there a connection?
Presenter: Mauricio Kunz, Clinical Fellow
Faculty Sponsor: Lakshmi Yatham

19. Inefficient Neural Firing as measured by BOLD Signal Peaks in Task-Positive and Task-Negative Neural Networks leads to Impaired Performance in Schizophrenia at High Working Memory Loads
Presenter: Jennifer Riley, Research Assistant
Faculty Sponsor: Todd Woodward

6:00 – 7:00 p.m. CLINICAL FACULTY BUSINESS MEETING

7:00 – 9:30 p.m. FACULTY DINNER AND AWARDS PRESENTATION (attendance with reservation only)

MANY THANKS TO THE JUDGES

Dr. Ken Shulman

Dr. Steven Vincent

CATEGORY AWARDS

Tsung-Yi Li Award for Clinical Research

McGeer Award for Basic Science

Zeldowicz Basic Science Poster Award

Zeldowicz Best Clinical Oral Presentation
for visiting Psychiatry Resident