

# 50th Anniversary Symposium

August 5 & 6th, 2011

Allard Family Lecture Theatre  
Katz Group, Centre for Pharmacy and Health Research

Department of Pharmacology



Celebrating 50 Years of Innovation

# Scientific Program

August 5, 2011

8:00 – 9:00 Continental breakfast (Katz Building Atrium)

9:00 – 9:30

## Welcome

**Dr. Alexander Clanachan**

*Acting Chair, Department of Pharmacology, University of Alberta*

**Dr. Lorne A. Babiuk**

*Vice-President, Research, University of Alberta*

**Dr. Marek Michalak**

*Vice-Dean, Research, University of Alberta*

## Session I

Tradition in Research Excellence and Innovation

Chair: Dr. Alexander Clanachan

9:30 – 10:00

**58 Years in science and pharmacology education: What I am most proud of**

**Dr. Edwin E. Daniel**

*Professor Emeritus, Department of Pharmacology, University of Alberta*

10:00 – 10:45

**The evolution of efficacy as a pharmacologic concept:  
New applications for drug discovery**

**Dr. Terrence P. Kenakin**

*Former Director, Biological Reagents and Assay  
Development, Platform Science Technologies, GlaxoSmithKline  
Presently Professor, University of North Carolina, Chapel Hill, NC USA*

10:45 – 11:00

Coffee break

11:00 – 11:45

**The endothelium: Influencing smooth muscle in many ways**

**Dr. Christopher R. Triggle**

*Assistant Dean of Admissions and Professor of Pharmacology,  
Weill Cornell Medical College, Qatar*

12:00 – 13:00

**Lunch and poster viewing** (Katz Building Atrium)

13:00 – 14:00

Keynote Lecture

**Black swans, genetics and drug discovery**

**Dr. Michael Hayden**

*Professor, University of British Columbia  
2011 Canada Gairdner Award Recipient*

## Session II

Neuroscience Research

Chair: Dr. William F. Dryden

14:00 – 14:30

**Hot baby: How early inflammation programs the brain**

**Dr. Quentin Pittman**

*Professor, Department of Physiology and Pharmacology, University of Calgary  
Adjunct Professor, Department of Pharmacology, University of Alberta*

- 14:30 – 14:50 Coffee break
- 14:50 – 15:20 **Adventures in NPY**  
**Dr. William F. Colmers**  
*Professor, Department of Pharmacology*
- 15:20 – 15:50 **Lipids in Alzheimer's disease:  
A new link between cholesterol and A $\beta$  toxicity**  
**Dr. Elena Posse De Chaves**  
*Associate Professor, Department of Pharmacology*
- 15:50 – 16:20 **A lipid-based therapy for Huntington's disease**  
**Dr. Simonetta Sipione**  
*Assistant Professor, Department of Pharmacology*
- 16:30 **Reception** (Katz Building Atrium)
- 17:00 – 19:00 **Poster session** (Katz Building Atrium)

August 6, 2011

- 8:00 – 9:00 Continental breakfast (Katz Building Atrium)

**Session III** Neuropharmacology

Chairs: Dr. Peter Smith

- 9:00 – 9:30 **Ligand-gated ion channel receptors: Manipulating their pharmacology**  
**Dr. Ian L. Martin**  
*Professor Emeritus, University of Aston, UK*  
*Adjunct Professor Department of Pharmacology, University of Alberta*
- 9:30 – 10:00 **The initiation and treatment of neuropathic pain**  
**Dr. Peter A. Smith**  
*Professor, Department of Pharmacology*
- 10:00 – 10:30 **1-Benzylpiperazine: Taking ecstasy to a new high**  
**Dr. Alan Hudson**  
*Associate Professor, Department of Pharmacology*
- 10:30 – 10:50 Coffee break
- 10:50 – 11:20 **Regulation of the early fusion pore by "raft" lipids**  
**Dr. Fred W.Tse**  
*Professor, Department of Pharmacology*
- 11:20 – 11:50 **Exploring enzymes as drug targets: There is more than one way to skin a  $k_{cat}$**   
**Dr. Andy Holt**  
*Associate Professor, Department of Pharmacology*
- 12:00 – 13:00 **Lunch and poster viewing** (Katz Building Atrium)

## Session IV Cardiovascular Research

Chair: Dr. Alexander Clanachan

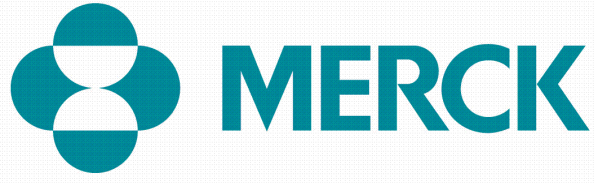
- 13:00 – 13:30 **An inside-out story:  
Matrix metalloproteinase-2 and myocardial oxidative stress injury**  
**Dr. Richard Schulz**  
*Professor, Departments of Pediatrics and Pharmacology*
- 13:30 – 14:00 **Combating oxidative stress in newborns**  
**Dr. Po Yin Cheung**  
*Professor, Departments of Pediatrics, Pharmacology and Surgery*
- 14:00 – 14:30 **What did the smooth muscle cell say to the endothelial cell?**  
**Dr. Frances Plane**  
*Assistant Professor, Department of Pharmacology*
- 14:30 – 14:50 Coffee break

## Session V Diabetes Research

Chair: Dr. Peter Light

- 14:50 – 15:20 **Studies on the molecular control of insulin secretion**  
**Dr. Patrick E. MacDonald**  
*Associate Professor, Department of Pharmacology*
- 15:20 – 15:50 **Function of GABA in pancreatic islets**  
**Dr. Matthias Braun**  
*Assistant Professor, Department of Pharmacology*
- 15:50 – 16:20 **Endocrine cell pharmacology revisited:  
New avenues for the treatment of type 2 diabetes**  
**Dr. Peter E. Light**  
*Professor, Department of Pharmacology*
- 16:20 – 16:50 **Cholesterol elevation impairs glucose-stimulated calcium signaling  
in mouse pancreatic beta cells**  
**Dr. Amy Tse**  
*Professor, Department of Pharmacology*
- 16:50 **Closing remarks**
- 19:00 **Dinner (Faculty Club)**
- Dinner will be followed by a speech by  
**Dr. William F. Dryden**  
*Professor Emeritus, Department of Pharmacology*

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