



*TaARI
Research
Day*

June 19, 2013



Inspiring Innovation and Discovery

Communicate

&

Collaborate

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Nima Vaezzadeh

PROGRAMME AT A GLANCE

	Main Auditorium	Atrium	4th Floor C4-115	5th Floor C5-111
10:15 - 10:30	Opening Remarks			
10:30 - 11:00	Guest Speaker: <i>Hubert Walinski</i>			
11:00 - 12:00	Oral Symposium I <i>Chair: Bernardo Trigatti</i>			
12:00 - 1:10		Lunch		
1:10 - 2:20	Abstracts 1 <i>Chair: Howard Chan</i>	Abstracts 2 <i>Chair: Geoff Werstuck</i>	Abstracts 3 <i>Chair: Patricia Liaw</i>	Abstracts 4 <i>Chair: Peter Gross</i>
2:20 - 2:45		Break		
2:45 - 3:45	Oral Symposium II <i>Chair: Jeffrey Weitz</i>			
3:45 - 4:00	Closing & Awards			
4:00 - 6:00		Refreshments		

GUEST SPEAKER



Dr. Hubert Walinski
Ph.D.

**Lead Medical Science
Liaison**
*Boehringer-Ingelheim,
Canada*

Dr. Walinski achieved his undergraduate degree at McMaster University and has earned his Ph.D. at the University of British Columbia. His research focus was on vitronectin, a protein that interacts with plasminogen activator inhibitor 1, as well as a key component in cell migration and tissue remodelling; more specifically, its involvement in myocardial ischemia and infarction. His findings were presented at major international conferences such as the International Society on Thrombosis and Haemostasis and American Heart Association. He has been with Boehringer-Ingelheim as a Medical Science Liaison in the cardiovascular and hematology department since 2009, and has recently been promoted as the Lead Medical Science Liaison. His talk will shed some light in the processes and challenges involved when making a transition from academia to industry, and an opportunity for trainees to ask their burning questions.

ORAL SYMPOSIUM I

MAIN AUDITORIUM - 11:00 TO 12:00

Chair: Bernardo Trigatti

11:00 - 11:15 **Liz Crane**

Engagement of cell surface GRP78 with anti-GRP78 autoantibodies accelerates atherosclerotic lesion growth

11:15 - 11:30 **Jorell Gantioqui**

The effect of rivaroxaban and dabigatran on the surface architecture of clots formed from plasma enriched with different levels of autologous platelets

11:30 - 11:45 **Paulina Kowalewska**

Syndecan-1 in the parietal peritoneum microcirculation

11:45 - 12:00 **Laura Pepler**

Characterization of an EPCR point-mutation knock-in mouse with impaired ability to generate activated protein C

ABSTRACTS 1

MAIN AUDITORIUM - 1:10 TO 2:20

Chair: Howard Chan

1:10 - 1:20

Edward Lynn

TDAG51 deficiency protects against atherosclerosis by modulating cholesterol efflux, apoptosis and peroxiredoxin-1 expression

1:20 - 1:30

Xena Li

A systematic review to evaluate thromboelastography for characterization of bleeding patients with advanced liver diseases

1:30 - 1:40

Shana Aadl Shaya

Correlation between deep vein thrombosis and pulmonary embolism using an in vivo mouse model of VTE: effect of thrombin inhibitors

1:40 - 1:50

Vinai Bhagirath

Mitochondrial DNA is elevated in sepsis and can delay neutrophil apoptosis and activate coagulation

1:50 - 2:00

Ranya Hasso

Urinary biomarkers of kidney function

2:00 - 2:10

Kristina Durham

SR-BI and its adaptor protein PDZK1 are required for HDL-mediated protection against doxorubicin induced cardiotoxicity

2:10 - 2:20

Kai Chen

Allosteric interactions between thrombin exosites: implications for novel thrombin-directed anti-coagulation

ABSTRACTS 2

ATRIUM - 1:10 TO 2:20

Chair: Geoff Werstuck

1:10 - 1:20

Helen Atkinson

Protamine sulfate neutralization of anticoagulation by a potent antithrombin-heparin covalent complex

1:20 - 1:30

Nicole Li

The rate of reduction in D-dimer level for patients with venous thromboembolism responding to antithrombotic therapy

1:30 - 1:40

Ran Ni

Dynamics of platelet thrombus formation

1:40 - 1:50

Zakhar Lysov

Lung cancer chemotherapy agents induce protein disulphide isomerase dependent tissue factor decryption resulting in increased procoagulant activity in vitro

1:50 - 2:00

Matthew D'Mello

Validation and optimization of a novel assay to measure telomere length in high-throughput

2:00 - 2:10

Mark Fuller

Characterization of SR-BI/LDLR dKO mice as a model of diet-accelerated coronary artery atherosclerosis

2:10 - 2:20

Trang Vu

Histidine-rich glycoprotein binds to DNA, RNA and fXIIa with high affinity and attenuates contact-mediated coagulation in a mouse model of arterial thrombosis

ABSTRACTS 3

4TH FLOOR G4-111 - 1:10 TO 2:20

Chair: Patricia Liaw

1:10 - 1:20

Leslie Berry

Effect of ethanol locks on occlusion of central venous catheters used for administration of total parenteral nutrition

1:20 - 1:30

Chantal Li

Heterogeneity of bleeding classification among randomized studies in hemophilic patients

1:30 - 1:40

Shengjun Qiao

Development of fluorescent protein FRET pair substrates for study of enzyme activity associated with thrombosis

1:40 - 1:50

Travis Gould

Effects of cell-free DNA on coagulation and fibrinolysis

1:50 - 2:00

Kripa Raman

Circulating RNA in healthy human plasma

2:00 - 2:10

Jonathan Yau

Selective depletion of contact factors with antisense oligonucleotides attenuates catheter thrombosis in rabbits

2:10 - 2:20

Cameron McAlpine

Investigating the role of glycogen synthase kinase-3 in pro-atherogenic ER stress signaling

ABSTRACTS 4

5TH FLOOR C5-115 - 1:10 TO 2:20

Chair: Peter Gross

1:10 - 1:20

Shouyan Ning

Over-representation of thoracic outlet obstruction in patients with unprovoked upper extremity deep vein thrombosis

1:20 - 1:30

Momina Khan

Investigating implications of western high fat diet for multi-organ function in a murine model of early sepsis

1:30 - 1:40

Nima Vaezzadeh

Comparison of different bleeding models for assessing coagulation and platelet function impairments in mice

1:40 - 1:50

Safiah Mai

In vivo modification of cell-free DNA in sepsis pathophysiology

1:50 - 2:00

Yi Zhang

Deficiency of HDL receptor, SRBI, is associated with impaired regression of atherosclerosis

2:00 - 2:10

Sara Henderson

Zinc inhibits fibrinolysis by attenuating plasminogen activation and fibrin degradation

2:10 - 2:20

Melec Zeadin

Investigating the role of ER stress and GSK-3 in the osteogenic differentiation of the MOVAS cell line

ORAL SYMPOSIUM II

MAIN AUDITORIUM - 2:45 TO 3:45

Chair: Jeffrey Weitz

2:45 - 3:00

Mike Chong

Exome sequencing for rare variants of stroke

3:00 - 3:15

Omid Dadoo

Interleukin-15 plays an important role in the development of atherosclerosis in mice

3:15 - 3:30

Calvin Yeh

Prothrombin activation intermediates bind thrombomodulin demonstrating sequential capacitation of exosite 1

3:30 - 3:45

Christina Petlura

Examining the hexosamine biosynthetic pathway and its role in the development of diabetes-associated atherosclerosis: a metabolomic approach

ACKNOWLEDGEMENTS



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