



Quorum



UNIVERSITY OF TORONTO

Artery-on-a-Chip Workshop

March 8, 2011, Toronto, 10:00AM - 4:00 PM

The Faculty Club, Main Floor Dining Room, University of Toronto, 41 Willcocks Street, Toronto

Final Agenda

10:00AM *Welcome*

Axel Guenther, Ph.D.^{1,2}, Steffen-Sebastian Bolz, MD, Ph.D.³

¹Department of Mechanical & Industrial Engineering, Institute of Biomaterials & Biomedical Engineering,

³Department of Physiology, University of Toronto

10:15 *Presentation of Artery-on-a-Chip Pre-Commercial Prototype*

John Arbuckle

CEO, Quorum Technologies

10:45 *Vascular Biology of Hypertension: From Molecules to Mice to Man*

Rhian M. Touyz MD, Ph.D.

Canada Research Chair in Hypertension, Senior Scientist/ Ottawa Hospital Research Institute

Professor of Medicine/ University of Ottawa, Kidney Research Centre

Dr. Ernesto Schiffrin, MD, Ph.D.

Physician-in-Chief, Chief, Department of Medicine, Director, Cardiovascular Prevention Centre, Canada Research Chair, Vice-Chair (Research), Department of Medicine, McGill University

11:45 *Lunch*

1:15PM *Artery-on-a-Chip Research Presentations*

Introduction of Artery-on-a-Chip Platform

Sascha Pinto, Institute of Biomaterials & Biomedical Engineering, University of Toronto

Automated Staining and Calcium & Vasomotor Dynamics

Sanjesh Yasotharan, Department of Mechanical & Industrial Engineering, University of Toronto

Local Effects of Dissolved Gasses on Microvascular Function

Oren Kraus, Department of Mechanical & Industrial Engineering, University of Toronto

From Bench to Bedside:

Translational Application of the Artery on a Chip Platform

Andrew S Levy, Ph.D., Department of Physiology, University of Toronto

Microvascular Complications in Diabetes – Application of the AoC to Large Animal Studies

Meghan Sauve, Department of Physiology, University of Toronto

Short Coffee Break

2:15 *From Function to Structure and Structure to Function: Vessel Mechanotransduction*

Gerald A. Meininger, Ph.D.

Director Dalton Cardiovascular Research Center

Margaret Proctor Mulligan Professor in Medical Research

Department of Medical Pharmacology and Physiology, University of Missouri-Columbia

3:15 *Workshop Summary and Outline of Prototype Placement Opportunities*

John Arbuckle, Axel Guenther, Steffen-Sebastian Bolz



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Location Map - The Faculty Club

University of Toronto, 41 Willcocks Street, Toronto, Ontario M5S 1C7, Tel: (416) 978-6325

