

CIHR Institute of Circulatory and Respiratory Health –YI Forum  
May 5-7, 2010 – Pan Pacific Hotel, Vancouver

FCIHR Session:

**“Better Health for Heart and Lung Patients with a Personalized Approach – New Tools, Many Challenges & Rapid Progress”**

Wednesday, May 5, 2010  
3:00 – 4:30 pm

**PROGRAM**

- 3:00 pm **Chair:** *Dr. Aubie Angel*, President, Friends of CIHR  
**Co-Chair:** *Dr. Bruce McManus*, Professor & Director, James Hogg iCAPTURE Centre and Providence Heart + Lung Institute at St. Paul’s Hospital/University of British Columbia
- 3:10 pm **“Cardiovascular Personalized Medicine – the Time is Now.”**  
*Dr. Robert Roberts*, President & CEO  
Ottawa Heart Institute
- 3:25 pm Discussion
- 3:35 pm **“Genome-Wide Association Studies (GWAS): Insights from Auto-immune Diseases.”**  
*Dr. Sergio Baranzini*, Associate Professor, Department of Neurology  
University of California
- 3:50 pm Discussion
- 4:00 pm **“Genetic Screening for Complex Cardiovascular and Pulmonary Disease: a progress report”**  
*Dr. Peter Paré*, Professor, Medicine & Pathology  
University of British Columbia
- 4:15 pm Discussion
- 4:30 pm Meeting adjourned – Dr. Angel



The banner features a blue header with the text 'Institute of Circulatory and Respiratory Health (ICRH)'. Below this is a red banner with 'ICRH's Young Investigators (YI) Forum' in white. The central image shows three young women smiling, with a background of red blood cells. To the right, a small inset shows two people in lab coats looking at a screen. The bottom of the banner has a red bar with 'May 5 - 7, 2010' and a white bar with 'Vancouver, British Columbia (Pan Pacific Hotel)'. Logos for CIHR IRSC and the Institute of Circulatory and Respiratory Health are also present.

**PROGRAM**

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## Opening Remarks

**Co-Chair - Bruce McMANUS**, MD, PhD, Director, Centre of Excellence for the Prevention of Organ Failure (PROOF Centre); Director, Heart + Lung Institute, University of British Columbia/Providence Health Care

Dr. McManus is a senior researcher and research administrator at the University of British Columbia. He leads cross-disciplinary teams focused on reducing the burden of inflammatory and infectious heart, lung and blood vessel diseases. He served as the inaugural director of the Institute of Circulatory and Respiratory Health, Canadian Institutes of Health Research. Dr. McManus works with research and healthcare organizations in the public and private sectors nationally and internationally. He has co-authored more than 300 original biomedical publications and has trained many scientists and clinicians. He is a Fellow of the Royal Society of Canada and of the Canadian Academy of Health Sciences.

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## “Cardiovascular Personalized Medicine – the Time is Now”

**Robert Roberts**, M.D., FRCP(C), MACC  
President & CEO, University of Ottawa Heart Institute

Dr. Roberts received his M.D. from Dalhousie University and completed his residency in Internal Medicine and Fellowship in Cardiology at the University of Toronto. Funded by a Canadian Heart Foundation Scholarship, he pursued research in enzymology and cardiac metabolism at the University of California, San Diego. In April 2004, Dr. Roberts was appointed President and CEO of the University of Ottawa Heart Institute and Director of The Ruddy Canadian Cardiovascular Genetics Centre.

Dr. Roberts has had a distinguished and prolific career as a Cardiologist, Educator and Scientist. He developed the MCBK Test which was used to diagnose heart attacks for three decades. Dr. Roberts' research led him to the discovery of several genes for heart disease. In recognition of his scientific contributions, Dr. Roberts has received many awards. For a complete résumé, visit: [www.ottawaheart.ca](http://www.ottawaheart.ca)

## “Genome-Wide Association Studies (GWAS): Insights from Auto-immune Diseases.”

**Sergio Baranzini**, Associate Professor  
Department of Neurology, University of California

Dr Baranzini received his PhD in human molecular genetics from the University of Buenos Aires in 1997. His thesis focused on phenotype genotype correlations in Duchenne muscular dystrophy patients and molecular methods for carrier and prenatal detection. Shortly after, he pursued postdoctoral training at UCSF Department of Neurology under Dr Jorge Oksenberg's supervision. During this period, Dr Baranzini specialized in neurogenetics and his research focused on multiple sclerosis. His training included genetics, immunology, neuroscience, and molecular biology, and he specialized in gene expression analysis and bioinformatics. Dr Baranzini also trained in mathematical modeling and complexity, which provided him with a solid foundation to approach the research of complex disease from a systems biology perspective. He joined the Faculty at UCSF in 2003 and is currently Associate Professor of Neurology.

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## “Genetic Screening for Complex Cardiovascular and Pulmonary Disease: a progress report”

**Peter Paré**, MD, Professor  
Medicine & Pathology, University of British Columbia

Dr. Paré's research expertise is in the study of the physiological assessment, pathophysiology and latterly the genetics of asthma and chronic obstructive pulmonary disease. He earned his medical degree from McGill University in Montreal in 1969. His residency training was done at the Royal Victoria Hospital and the University of Nairobi before completing a two year postdoctoral fellowship at the Meakins Christie Laboratories.

His research focuses on the mechanisms of airway narrowing in asthma and COPD, the bronchial microcirculation, the use of CT scanning to assess lung structure and the genetics of lung disease. Dr Paré is one of the four co-authors of the “*Diagnosis of Diseases of the Chest*” a widely used four volume text on the diagnosis of lung disease.