Academy of Cardiovascular Research Excellence Canada

The 2nd Scientific Meeting of ACRE Canada

Discoveries in Cardiovascular Health and Disease

**Western University, Schulich School of Medicine and Dentistry,
Medical Sciences Building, 2nd Floor, Rm. M282, London, Ontario, Canada**

July 4 - 6, 2024

Poster sessions: DSB 2005

Organizers: Tianqing Peng, Zhuxu Zhang and Qingping Feng (Western University)

Organizing Committee Members: Tianqing Peng, Zhuxu Zhang and Qingping Feng (Western University), Ren-Ke Li and Burton Yang (U of Toronto), Dake Qi (U of Manitoba), Guangdong Yang (Laurentian U), Dawei Zhang (U of Alberta), Ying Wang and Hong-Lin Luo (UBC), Xi-Long Zheng (U of Calgary), Wenbin Liang (U of Ottawa)

Preliminary Meeting Program

Thursday, July 4, 2024

Conference Registration Opens

Friday, July 5, 2024

8:20 – 9:00 AM	Conference Registration
9:00 – 9:10 AM	Opening remarks, Tianqing Peng, Zhuxu Zhang and Qingping Feng
9:10 – 9:15 AM	Remarks from Rob Bartha, Vice Dean of Research, Schulich School of Medicine and Dentistry, Western University (to be confirmed)
9:15 – 9:20 AM	Remarks from President of ACRE, Xuejun Wang, University of South Dakota

SESSION I: Cardiovascular Injury and Protection

Chairs: Wenbin Liang and Dawei Zhang

9:20 – 9:40 AM	Cardiac toxicity of Bruton's tyrosine kinase (BTK) inhibitors. Anargyros Xenocostas. Associate Professor of Medicine, Hematologist, London Health Sciences Centre, Western University, London, ON
9:40 – 10:00 AM	Stat3 signaling in conditioning cardioprotection in normal and functionally impaired heart. Zhengyuan Xia, Associate Professor, University of Hong Kong, Hong Kong, China

10:00 – 10:20 AM	The novel role of protease activated receptor 2 (PAR2) in mediating myocardial ischemia-reperfusion injury. <u>Dake Qi</u>, Associate Professor of Pharmacy, University of Manitoba, Winnipeg, MB
10:20 – 10:40 AM	Salt-Inducible Kinase 3: A Friend or Foe in Atherosclerotic Disease? <u>Xi-Long Zheng</u>, Professor of Biochemistry and Molecular Biology, Libin Cardiovascular Institute, University of Calgary, Calgary, AB
10:40 – 10:55 PM	Refreshment Break and poster viewing (D2005)

SESSION II: Molecular Insights in Cardiovascular Disease

Chairs: Dake Qi and Xi-Long Zheng

10:55 – 11:15 AM	Vascular regenerative cell deficiencies in South Asians with T2D: A story of diversity in Canadian health care. David Hess, Professor of Physiology and Pharmacology, Scientist at Robarts Research Institute, Western University, London, ON
11:15 – 11:35 AM	Molecular mechanism of maintaining low-density lipoprotein cholesterol homeostasis and its therapeutic implications. <u>Dawei Zhang</u>, Professor of Pediatrics, University of Alberta, Edmonton, AB
11:35 – 11:55 AM	TBA. Don Welsh, Professor of Physiology and Pharmacology, Scientist at Robarts Research Institute, Western University, London, ON
11:55 - 12:15 PM	Identifying novel mechanosensitive receptors by custom high-throughput mechanical stimulation systems. <u>Jie Xu</u>, Professor, Sun Yat-sen University, Guangzhou, China
12:15 – 12:35 PM	IPSC modeling for cardiovascular disease. <u>Mark Chandy</u>, Assistant Professor, Robarts Research Institute, Western University, London, ON
12:35 – 2:25 PM	Box Lunch and trainee poster presentation (D2005)

SESSION III: ACRE International

Chairs: Ren-Ke Li and Tianqing Peng

2:25 – 2:45 PM	Cardiac Pathophysiology of Proteasome Activation by PKA. <u>Xuejun Wang</u>, Professor and Director of Basic Biomedical Sciences, University of South Dakota, Vermillion, SD, USA

2:45 – 3:05 PM	Viperin mediates acute heart failure by activating SGK1 signaling. Hui Zheng, Professor, School of Medicine, University of Electronic Science and Technology of China, Chengdu, China
3:05 – 3:25 PM	Discovery of therapeutic targets for cardiovascular diseases. Lily Fuli Xiang, Associate Professor, Sun Yat-sen University, Guangzhou, China
3:25 – 3:45 PM	Advancing Causal Gene Discoveries to Innovative Targets for CVD. Eugene Chen, Professor, Pharmacology, Molecular and Integrative Physiology, and Internal Medicine, University of Michigan, Ann Arbor, MI, USA
3:45 – 4:00 PM	Refreshment Break and poster viewing (D2005)

SESSION IV: Keynote Presentation

Chairs: Qingping Feng and Ren-Ke Li

4:00 – 4:45 PM	**Keynote Presentation: Deconstructing vascular smooth muscle neighbourhoods. Dr. Geoffrey Pickering,** Professor and Neil McKenzie Chair in Cardiac Care, Robarts Research Institute, Western University, London, ON, Canada
4:45 –5:00 PM	Conference Photo
5:30 – 8:30 PM	Conference Dinner for registered attendees

Saturday, July 6, 2024

SESSION V: Trainee Presentations

Chairs: Burton Yang and Guangdong Yang

9:00 – 9:15 AM	TBA. PDF (Ying Wang's lab), University of British Columbia
9:15 – 9:30 AM	Viral subversion of autophagy: Insights into the pathogenic mechanisms of myocarditis. Yasir Mohamud, CIHR REDI career transition awardee, PDF of Pathology and Laboratory Medicine, University of British Columbia, Vancouver, BC
9:30 – 9:45 AM	
9:45 – 10:00 AM	
10:00 –10:15 AM	
10:15 – 10:30 AM	

10:30 – 10:45 AM   Refreshment Break and poster viewing (D2005)

SESSION VI: Novel Mechanisms and Cardiovascular Translation

Chairs: Zhuxu Zhang and Ying Wang

10:45 – 11:05 AM   Regulation of cardiac ion channels by Wnt signalling. Wenbin Liang, Associate
                        Professor of Cellular and Molecular Medicine, University of Ottawa Heart
                        Institute, Ottawa, ON

11:05 – 11:25 AM   H2S signaling and muscle health. Guangdong Yang (Laurentian University)

11:25 – 11:45 AM   The role of mitochondrial DNA variation in cardiovascular disease risk. Christina
                        Castellani, Assistant Professor of Pathology and Laboratory Medicine, Western
                        University, London, ON

11:45 – 12:05 AM   Cardiac fibrosis regulated by circular RNA encoded proteins. Burton Yang,
                        Professor of Laboratory Medicine and Pathobiology, University of Toronto,
                        Toronto, ON

12:05 – 12:15 PM   Trainee Poster Award presentation (Winner group photo)

12:15 – 12:20 PM   Closing remarks, Ren-Ke Li

Lunch

1:00 – 3:00 PM ACRE Canada Business Meeting

The ACRE Canada Scientific Meeting Committee gratefully acknowledges the generous support of our event partners: