

DR. ROBERT ZHONG

# Department of Surgery Research Day

June 5, 2024

10:30 a.m.

Brescia University College

## Program Learning Objectives

At the conclusion of this conference, participants will be able to:

1. Describe current research activities in the Department of Surgery.
2. Recognize the need for inclusivity and well-being in surgical training.
3. Describe strategies used for advancing surgical education.

(25% of this program is dedicated to participant interaction)

This event is an Accredited Group Learning Activity (Section 1) as defined by the Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada, and approved by Continuing Professional Development, Schulich School of Medicine & Dentistry, Western University. You may claim a maximum of **3.0 hours** (credits are automatically calculated).

Each participant should claim only those hours of credit that he/she actually spent participating in the educational program.

## Welcome

- 10:30 a.m. Poster Session
1. *Fundamental Sciences and Surgical Innovation*  
Session Chair: **Dr. Armen Parsyan** – Classroom 2001A
  2. *Big Data + Quality Improvement & Patient Centered Research + Surgical Education*  
Session Chair: **Dr. Natasha Seemann** – Classroom 2001B
- 12:00 p.m. Opening Remarks

## Award Winning Resident Platform Presentations – (5 minutes each, 2 minutes for questions)

- 12:15 p.m. **Dr. Abigail Frazer** (Division of Orthopaedic Surgery)  
Analyzing Gender Trends in Orthopaedic Surgical Residents in Canada Over 20 Years
- 12:22 p.m. **Dr. Srinivas Gopinath** (Division of Thoracic Surgery)  
Long-term Recurrence and Reoperation Risk with Robotic, Laparoscopic and Open Hiatal Hernia Repairs – A 10-year Longitudinal Series
- 12:29 p.m. **Dr. Nader Aboelnazar** (Division of Cardiac Surgery)  
Does Multi-Arterial Revascularization Confer Additional Survival Benefit in Heart Failure Patients Undergoing Coronary Artery Bypass Graft? A Systematic Review and Meta-Analysis
- 12:36 p.m. **Dr. Jovana Momic** (Division of General Surgery)  
Retrospective Review of Current Canadian Practice Patterns and Aspirin Dosing in the Treatment of Blunt Cerebrovascular Injury (BCVI)
- 12:43 p.m. **Dr. Kelsey Ambrose** (Division of Vascular Surgery)  
Management of Penetrating Aortic Injuries in Pediatric Patients: A Scoping Review
- 12:50 p.m. **Dr. Abigail Arnott** (Division of Paediatric Surgery)  
Effect of Intravenous Acetaminophen on Postoperative Opioid Use in Neonatal Patients: A Single Centre Case-Control QI Initiative
- 12:57 p.m. **Dr. Heather Rotz** (Division of Urology)  
Outcomes of the Artificial Urinary Sphincter Among Men with Prior Pelvic Radiation: Device Survival and Impact of Time Since Radiation.
- 1:04 p.m. **Dr. Regina Leung** (Division of Plastic & Reconstructive Surgery)  
Introducing HoloHands: Development and Assessment of a Holographic Tutor for Surgical Hand Ties

**1:10 – 1:40 p.m. BREAK (30 Minutes)**

## Keynote Address (30 minutes, 15 minutes for questions)

- 1:40 p.m. **Dr. Jason Frank** – Tension in New Models of Surgical Education Globally

## MSc Platform Presentation (8 minutes, 2 minutes for questions)

- 2:25 p.m. **Dr. Kathryn Minkhorst** – Use of a RHAMM Peptide Mimetic, NP-110, to Reduce Fibrosis in a Novel Rat Model of Radiation-Induced Capsular Contracture



## Faculty Presentations *(12 minutes each, 3 minutes for questions)*

- 2:35 p.m.      **Dr. Armen Parsyan**, *Fundamental Sciences & Surgical Innovation Node*  
Spatial Omics Studies in Breast Cancer – New Opportunities for Biomarker and Drug Target Discoveries
- 2:50 p.m.      **Dr. Natasha Seemann**, *Surgical Education Node*  
Cutting Culture: Reshaping Surgical Ethos for a Better Tomorrow
- 3:05 p.m.      **Dr. Brent Lanting**, *QI & Patient Centered Research Node*  
Outpatient Arthroplasty: A decade later?
- 3:20 p.m.      **Dr. Blayne Welk**, *Big Data/ICES*  
Semaglutide and Intraoperative Aspiration: Fact or fiction?

## Wrap Up

- 3:35 p.m.      Presentation of the Walker Research Day Award and Best Resident/Fellow Research Oral Poster presentation, Closing Remarks & Evaluation Form

## Keynote Address

### **Dr. Jason Frank, MD, PhD, FRCSC, FACS, FAOA(hon)**

*Tension in New Models of Surgical Education Globally*

Dr. Jason R. Frank is a clinician-educator focusing on all aspects of health professions training. He is a professor in the Department of Emergency Medicine at the University of Ottawa, Faculty of Medicine as well as an attending physician at the Ottawa Hospital.. He currently serves as the founding Director for the Centre for Innovation in Medical Education at UOttawa (cIMED). Formerly, he worked as the Director, Specialty Education, Strategy and Standards in the Office of Specialty Education at the Royal College of Physicians and Surgeons of Canada,

Born in rural northern Canada, Jason Frank obtained his MD from the University of Ottawa, Faculty of Medicine and an FRCPC in Emergency Medicine at the University of Toronto. His Masters of Education is from the Ontario Institute for Studies in Education. He is known for his work on all aspects of medical education, particularly the CanMEDS Project since 1994, and as one of the pioneers of competency-based medical education (CBME). He is the founder and chair of the International CBME Collaborators consortium and the Competence By Design project.

A past finalist for Canada's Top 40 Under 40, he has been recognized for his contributions to medicine and teaching. He is the recipient of the 2013 Council Award Honouring Outstanding Physicians, from the College of Physicians and Surgeons of Ontario, and was made an honorary Fellow of the Australian Orthopedic Association in 2015 for his contributions to surgical education. In 2020, he was given the Ian Hart Award by the Association for Medical Education in Europe, one of the highest international honours for contributions to health professions education.



## Session Specific Learning Objectives

By the end of this session, participants will be able to:

1. Describe some developments in surgical training worldwide
2. Describe controversies with new competency-based approaches
3. Consider some new strategies to bring to Western surgical training





**N**amed in honour of Dr. Robert Zhong, a brilliant scientist and colleague who passed away in London, Ontario on September 8, 2006.

Dr. Robert Z. Zhong was born in Shanghai, China on January 16, 1946. He graduated from Shanghai No 1 Medical University and was then assigned by the government to work as a general surgeon in a community hospital. Dr. Zhong attended a seminar

led by Dr. Sun Lee – considered to be the founding father of experimental microsurgery – and whom he would later credit to be one of the most important mentors of his life.<sup>1</sup> Dr. Zhong arrived in Canada first as a research fellow under the supervision of Drs. John Duff and Calvin Stiller in 1984. His persistence and vision led to a full-time appointment and microsurgical animal models that would be applied in human transplantation clinical practice.

Recognizing that molecular biology and transplant immunology were critical to the future of transplantation, Dr. Zhong began his study of these fields in Canada to become one of the world's leading experts in transplantation and microsurgery. He went on to become a Tier One Canada Research Chair in Transplantation and Experimental Surgery in 2004 and was appointed a full Professor in the Departments of Surgery, Pathology, and Microbiology & Immunology at The University of Western Ontario. Dr. Zhong was a scientist at the Robarts Research Institute; Director of the Microsurgery Laboratory at LHSC; and a scientist at the Lawson Health Research Institute. Dr. Zhong's influence into the fields of transplantation and microsurgery were profound and far-reaching. He was Past President of the International Society of Experimental Microsurgery; a member of the Canadian Society of Transplantation, American Society of Transplantation; and the American Society of Transplant Surgeons. Dr. Zhong was awarded the Lifetime Achievement Award by the Canadian Society of Transplantation posthumously in 2007.

<sup>1</sup>Zhong T. (2007), Dr. Robert Zhen Zhong: A tribute by his daughter. *Microsurgery*, 27:214-215.



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Shaping the future of surgery



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