DR. ROBERT ZHONG DEPARTMENT OF SURGERY RESEARCH DAY

Friday, June 24, 2016
Shuttleworth Auditorium
Room D0-104
St. Joseph’s Hospital

Objectives
1. To learn about the genomic and metabolic basis for malignancies.
2. The utility of novel wound healing therapies.
3. Perceptions behind trampoline related injuries.
4. Infective complications following prostate biopsies.
6. Insight into surgeon physiological responses in the operating room.
7. Experimental immune therapies in heart transplantation.
8. The utility of image based outcome analysis of orthopaedic implants.
9. Overview of the use of black boxes in the operating room.
   (25% of this program is dedicated to participant interaction)

CME Credits
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, approved by Continuing Professional Development, Schulich School of Medicine & Dentistry, Western University. (4 hours)

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

Please note: To obtain your Certificate of Attendance for your CME credits, you must complete and return the Research Day evaluation form. There are two options for returning your form:

1. Go to the Department of Surgery Research Day website (schulich.uwo.ca/surgery/research/research_day) and click on the link to the evaluation form.
2. Complete a hard copy evaluation form and submit it at the end of Research Day.
AGENDA

7:00 – 9:00 a.m. 
Registration/ Coffee

7:00 – 9:00 a.m. 
Poster Session

9:00 – 9:05 a.m. 
Opening Remarks: Dr. Emil Schemitsch, Chair/Chief, Department of Surgery

Award Winning Resident / Fellow Research Papers
(7 presentations @ 10 minutes: 8 minute presentations, 2 minutes for questions)

9:05 – 9:15 a.m. 
Dr. Caitlin Symonette
Division of Plastic & Reconstructive Surgery
“Can We Identify A Threshold For Acceptable Radiographic Parameters Of Distal Radius Fractures In The Elderly?”

9:15 – 9:25 a.m. 
Dr. Christopher Del Balso
Division of Orthopaedic Surgery
“Trunnionosis: Does Head Diameter Affect Fretting & Corrosion in Total Hip Arthroplasty”

9:25 – 9:35 a.m. 
Dr. Jeff Hawel
Division of General Surgery
“Synoptic versus Free-Form CT Reporting for Determination of Resectability in Periampullary Malignancy”

9:35 – 9:45 a.m. 
Dr. Matthew Valdis
Division of Cardiac Surgery
“Evaluation of Robotic Cardiac Surgery Simulation Training: A Randomized Controlled Trial”

9:45 – 9:55 a.m. 
Dr. Rod Clark
Division of Urology
“The Impact Of Steroid Use On Artificial Urinary Sphincter Reoperation”

9:55 – 10:05 a.m. 
Dr. Kevin Lee
Division of Vascular Surgery
“RCT of Negative Pressure Wound Therapy for High Risk Groin Wounds in Lower Extremity Revascularization”

10:05 - 10:15 a.m. 
Dr. Supriya Singh
Division of Paediatric Surgery
“Evaluation of Primary Caregivers’ Perceptions on Home Trampoline Use”

Presentation by Award Winning MSc Student Colloquium Presentation
(One presentation @ 10 minutes: 8 minute presentation, 2 minutes for questions)

10:15 – 10:25 a.m. 
Dr. Sohrab Ali
“The Development of Novel Drosophila Melanogaster Models for Human Nephrolithiasis”

10:30 – 11:00 a.m.
Break amongst Posters & Sponsor Booths

Outstanding Researchers in the Department of Surgery
(5 presentations @ 10 minutes: 8 minute presentations, 2 minutes for questions)

11:00 – 11:10 a.m. 
Dr. Stephen Pautler
“The Impact of Infectious Complications After Prostate Biopsy on Radical Prostatectomy Surgical Outcomes: A Population-Based Analysis”

11:10 – 11:20 a.m. 
Dr. Jamie Howard
“Variations in Physiological and Psychological Responses of Orthopaedic Surgeons and Clinical Fellows During Surgical Practice”

11:20 – 11:30 p.m. 
Dr. Hon Leong
“PDXovo: Rapid In Vivo Drug Sensitity Evaluation via Ultrasound in a Patient Derived Xenograft Model for Renal Cell Carcinoma”

11:30 – 11:40 p.m. 
Dr. Eric Frechette
“Reducing Post-Lobectomy Air-Leak with Early Hypertonic Glucose Pleurodesis”

11:40 – 11:50 p.m. 
Dr. Weiping Min
“Preventing Immune Rejection in Heart Transplantation through Engineered Dendritic Cells by GDF-15”

12:00 – 1:00 p.m.
Lunch Break
Invited Speaker
(One presentation @ 60 minutes: 45 minute presentation, 15 minutes for questions)

W. Marston Linehan, M.D. received his internship, residency and fellowship training at Duke University Medical Center. He began his career at the National Cancer Institute in 1982 with positions as Senior Investigator and Urologist-in-Charge, NCI. He is currently Surgeon-in-Chief, National Institutes of Health and Chief of the Urologic Oncology Branch at the National Cancer Institute, National Institutes of Health, Bethesda, Maryland. He has had a long standing interest in identification of the genetic basis of cancer of the kidney. By studying patients and families with kidney cancer, he and his colleagues identified the VHL gene (von Hippel-Lindau and clear cell renal carcinoma), the gene for Hereditary Papillary Renal Carcinoma (MET oncogene, type I papillary renal carcinoma) the FLCN gene (Birt Hogg Dubé syndrome, chromophobe renal carcinoma), the gene for TFE3 kidney cancer and described the germline fumarate hydratase and succinate dehydrogenase B/C/D mutations in the North American families with hereditary leiomyomatosis renal cell carcinoma (HLRCC) and SDH-RCC and described five new diseases. This work has provided the basis for the development of new therapeutic strategies for the different types of kidney cancer based on understanding the molecular pathway of the specific cancer genes associated with the different types of kidney cancer. He and his colleagues have defined the methods for clinical management of kidney cancer associated with the hereditary forms of kidney cancer, von Hippel Lindau, Hereditary Papillary Renal Carcinoma and Birt Hogg Dubé syndrome and Hereditary Leiomyomatosis Renal Cell Carcinoma and Succinate Dehydrogenase Renal Cell Carcinoma.

Dr. Linehan is a member of the National Academy of Medicine of the National Academies of Science. He has received the Joseph H. Burchenal Memorial Award for Outstanding Achievement in Clinical Cancer Research from the American Association for Cancer Research, the Dr. Nathan Davis Award from the American Medical Association, the Lila Gruber Award for Cancer Research from the American Association of Dermatology, the NIH Director’s Award for discovery of the VHL kidney cancer gene, the Barringer Medal from the American Association of Genitourinary Surgeons, the Gold Cystoscope Award and the Distinguished Contribution Award from the American Urological Association, the Huggins Medal and the SUO Medal from the Society of Urologic Oncology and the Andrew C. Novick Award from the Kidney Cancer Association. He is or has been on the editorial board of 14 journals.

Outstanding Scientist in the Department of Surgery
(One presentation @ 15 minutes: 12 minute presentation, 3 minutes for questions)

2:00 – 2:15 p.m. Dr. Matthew Teeter “Image-Based Biomechanics: Assessing Orthopaedic Therapies and Devices”

Group Interactive Session
(30 minute group interactive session)

2:15 – 2:45 p.m. Debate: Should We Use Black Boxes in the Operating Room – Dr. Brent Lanting & Dr. Chris Schlachta
Moderator: Dr. Neil Parry

Awards & Closing Remarks
(Completion of Research Day Evaluation Forms)

2:45 – 3:00 p.m. Dr. Emil Schemitsch
The Robert Zhong Department of Surgery Research Day was named in honour of Dr. Robert Zhong, a brilliant scientist and colleague who passed away in 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.1 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.

Dr. Zhong published over 180 peer-reviewed publications and achieved millions of dollars in research grant funding. He supervised more than 70 graduate students and fellows and trained over 70 microsurgeons worldwide during his 21-year career at Western. His superb leadership and vision were recognized as having created an internationally renowned program in experimental transplantation. A brilliant scholar, teacher, and mentor, Dr. Zhong is also remembered as a man of great humility, kindness, and respect.

Dr. Robert Zhen Zhong passed away in London, Ontario on September 8, 2006.


This program was supported in part by educational grants from the following:

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