16th Annual Lorne D. Sullivan Lectureship & Research Day

Date: Tuesday, June 21, 2022
Time: 8:00 AM – 3:00 PM (PDT)
Location: Paetzold Health Education Centre
Vancouver General Hospital
Program

Welcome
8:00 AM – 8:15 AM  Dr. Martin Gleave, CM, MD, FRCSC, FACS
Distinguished Professor and Head, Department of Urologic Sciences, UBC
Executive Director, Vancouver Prostate Centre
British Columbia Leadership Chair in Prostate Cancer Research

Dr. Robert McMaster, PhD
Vice Dean, Research, Faculty of Medicine, UBC

Dr. David Granville, PhD, FAHA
Executive Director, Vancouver Coastal Health Research Institute
Professor and Associate Dean, Research, Faculty of Medicine, UBC

Lorne D. Sullivan Lectureship
8:15 AM – 8:55 AM  Regenerative Medicine New Approaches to Healthcare
Dr. Anthony Atala, MD
George Link, Jr. Professor and Director
Wake Forest Institute for Regenerative Medicine
W. H. Boyce Professor and Chair, Department of Urology
Wake Forest School of Medicine

Session I: Clinical Kidney
(7-minute talk and 3-minute Q&A)

8:55 AM – 9:55 AM  Moderator: Dr. Ryan Paterson

8:55 AM – 9:05 AM  URETEROSCOPY WITH THULIUM FIBER LASER LITHOTRIPSY VERSUS PERCUTANEOUS NEPHROLITHOTOMY FOR THE TREATMENT OF RENAL STONES 15-20MM
Abdulghafour A Halawani, Jessica Que, Victor Wong, Ben Chew

9:05 AM – 9:15 AM  THULIUM FIBER LASER VERSUS HOLMIUM: YAG: A CLINICAL COMPARISON OF LASER LITHOTRIPSY EFFICIENCY IN A RETROSPECTIVE OF 73 PATIENTS AT A TERTIARY STONE CENTRE
Alec Mitchell, Victor Wong, Abdulghafour Halawani, Ryan Paterson, Ben Chew

9:15 AM – 9:25 AM  PREDICTING TRANSPLANT KIDNEY FUNCTION DECLINE FROM ULTRASOUND ONLY USING AN INTERPRETABLE ARTIFICIAL INTELLIGENCE MODEL
Ricky Hu, Rohit Singh, Zoe Hu, Cailin Ringstrom, Victoria Lessoway, Janice Reid, Robert N. Rohlin, Timothy Murray, Christopher Nguan

9:25 AM – 9:35 AM  THE KIDNEYS ARE NOT NORMAL: ULTRASOUND SPECKLE DISTRIBUTIONS OF TRANSPPLANTED KIDNEYS
Rohit Singh, Cailin Ringstrom, Ricky Hu, Victoria Lessoway, Janice Reid, Robert N. Rohling, Christopher Nguan
9:35 AM – 9:45 AM  COMPARISON OF SURGICAL OUTCOMES BETWEEN STAGED VERSUS SIMULTANEOUS NATIVE NEPHRECTOMY FOR AUTOSOMAL DOMINANT POLYCYSTIC KIDNEY DISEASE  
Anthony Emmott, Iman Baharmand, Michael Eng, Christopher Nguan, David Harriman

9:45 AM – 9:55 AM  IN VITRO AND IN VIVO ASSESSMENT OF PATHOGENIC PROPERTIES OF PROTEUS MIRABILIS IN URINARY TRACT INFECTION AND STRUVITE STONE FORMATION  
Roman Herout, Sara Khoddami, Igor Moskalev, Alina Reicherz, Ben Chew, Chelsie Armbruster, Dirk Lange

**State of Art Lecture I**

9:55 AM – 10:10 AM  PROMs’ PROMises in Pediatric Urology  
Dr. Soojin Kim  
Investigator and Pediatric Urologist, BC Children’s Hospital  
Clinical Assistant Professor, Department of Urologic Sciences, UBC

**Break and Posters**  
10:10 AM – 10:40 AM

**Session II: Andrology**  
(7-minute talk and 3-minute Q&A)

10:40 AM – 11:10 AM  Moderator: Dr. Dirk Lange

10:40 AM – 10:50 AM  INVESTIGATING INTRATESTICULAR HETEROGENEITY IN NON-OBSTRICTIVE AZOOSPERMIA USING SINGLE CELL RNA SEQUENCING AND IMMUNE CELL PHENOTYPING  

10:50 AM – 11:00 AM  DEEP LEARNING-BASED AUTOMATED SPERM IDENTIFICATION FROM TESTIS BIOPSES  

11:00 AM – 11:10 AM  UNDERRECOGNIZED FACTORS AFFECTING PENILE IMPLANT SATISFACTION IN PATIENTS  
Julie Wong, Luke Witherspoon, Ryan Flannigan

**Session III: Bladder Cancer**  
(7-minute talk and 3-minute Q&A)

11:10 AM – 11:50 AM  Moderator: Dr. Lucia Nappi

11:10 AM – 11:20 AM  NOVEL 3D PERSONALIZED BLADDER CANCER MODEL ON DEMAND: A NEW ERA FOR PERSONALIZED MEDICINE.  
Monjaras-Avila CU, Luque-Badillo AC, Chavez-Munoz C, So Al

11:20 AM – 11:30 AM  PROTEOMICS PROFILING OF MUSCLE INVASIVE BLADDER CANCERS TREATED WITH NEOADJUVANT CHEMOTHERAPY  

11:30 AM – 11:40 AM  MULTI-OMIC PROFILING OF METASTATIC UROTHELIAL CARCINOMA PATIENTS EXHIBITING EXCEPTIONAL RESPONSE TO SYSTEMIC CHEMOTHERAPY  

11:40 AM – 11:50 AM  A NOVEL CHIMERIC ANTIGEN RECEPTOR SYSTEM THAT TARGETS ONCOFETAL CHONDROITIN SULFATE GLYCOSAMINOGLYCANS IN SOLID TUMORS  
Nastaran Khazamipour, Nader Al Nakouzi, Htoo Zarni Oo, Morgan Robert, Tobias Gustavsson, Ali Salanti, and Mads Daugaard
MULTICENTER EVALUATION OF NEOADJUVANT AND INDUCTION GEMCITABINE-CARBOPLATIN VERSUS GEMCITABINE-CISPLATIN FOLLOWED BY RADICAL CYSTECTOMY FOR MUSCLE-INVASIVE BLADDER CANCER


Lunch and Posters 12:00 PM – 12:45 PM

Session IV: Computational Biology
(7-minute talk and 3-minute Q&A)

12:45 PM – 1:45 PM Moderator: Dr. Alexander Wyatt

12:45 PM – 12:55 PM DEVELOPMENT OF A NOVEL SINGLE CELL METHODOLOGY TO ASSAY ENHANCER ACTIVITY
Tunc Morova, Dogancan Ozturcan, Chia-Chi Flora Huang, Funda Sar, Nathan A. Lack

12:55 PM – 1:05 PM scTAGGER: FAST AND ACCURATE MATCHING OF CELLULAR BARCODES ACROSS SHORT- AND LONG-READS OF SINGLE-CELL RNA-SEQ EXPERIMENTS
Ghazal Ebrahimi, Baraa Orabi, Meghan Robinson, Cedric Chauve, Ryan Flannigan, Faraz Hach

1:05 PM – 1:15 PM GENION, AN ACCURATE TOOL TO DETECT GENE FUSION FROM LONG TRANSCRIPTOMICS READS
Fatih Karaoglanoglu, Cedric Chauve, Faraz Hach

1:15 PM – 1:25 PM CIRCULATING TUMOUR DNA FRACTION AS AN INDEPENDENT PROGNOSTIC TOOL IN METASTATIC CASTRATION-RESISTANT PROSTATE CANCER
Nicolette M Fonseca, Corinne Maurice-Dror, Cameron Herberts, Andrew J. Murtha, Catarina Kollmansberger, Edmond M. Kwan, Daniel J. Khalaf, Matti Annala, William Fan, Joanna Vergidis, Krista Noonan, Daygen L. Finch, Muhammad Zulfiqar, Stacy Miller, Kim N. Chi, Alexander W. Wyatt

1:25 PM – 1:35 PM PROSPECTIVE IDENTIFICATION OF ACTIONABLE CTDNA ALTERATIONS IN A PHASE II PRECISION ONCOLOGY TRIAL FOR ADVANCED PROSTATE CANCER
Wilson Tu, Edmond M Kwan, Andrew Murtha, Cecily Bernales, Matti Annala, Kim N.Chi, Alexander W. Wyatt

1:35 PM – 1:45 PM A GENERALIZABLE MACHINE LEARNING FRAMEWORK FOR CLASSIFYING DNA REPAIR DEFECTS USING CTDNA EXOMES
Elie J. Ritch, Cameron Herberts, Sarah W. S. Ng, Jack V. W. Bacon, Evan W. Warner, Gillian Vandekerkhove, Corinne Maurice-Dror, Cecily Q. Bernales, Elena Schönlau, Nicolette M. Fonseca, Steven J. M. Jones, Kim N. Chi, Alexander W. Wyatt

State of Art Lecture II

1:45 PM – 2:00 PM A Puzzle of Complexity: Androgen Receptor-Mediated Transcription in Prostate Cancer

Dr. Nathan Lack
Senior Research Scientist, Vancouver Prostate Centre
Assistant Professor, Department of Urologic Sciences, UBC
Associate Professor, School of Medicine, Koç University (Istanbul, Turkey)
Session V: Prostate
(7-minute talk and 3-minute Q&A)

2:00 PM – 2:45 PM Moderator: Dr. Xuesen Dong

2:00 PM – 2:10 PM
SUPER-ENHANCER REMODELLING IN ENZ RESISTANT PROSTATE CANCER IS ASSOCIATED WITH STEMNESS AND MYC FAMILY BINDING
Maxim Kobelev, Dwaiyan Ganguli, Takeshi Namekawa, Joshua Scurl, Amina Zoubeidi

2:10 PM – 2:20 PM
CHAPERONE MEDIATED AUTOPHAGY COORDINATES METABOLIC REPROGRAMMING OF PROSTATE CANCER CELLS PROMOTING TREATMENT RESISTANCE
Nicholas Nikesitch, Eliana Beraldi, Fan Zhang, Kotaro Suzuki, Hans Adomat, Robert Bell, Ladan Fazli, Christopher Wells, Nicholas Pinette, Neetu Saxena, Yuzhuo Wang, Colin Collins, Martin Gleave

2:20 PM – 2:30 PM
REGULATION AND TARGETING OF CHONDROITIN SULFATE GLYCOSAMINOGLYCANS IN PROSTATE CANCER

2:30 PM – 2:40 PM
LONGITUDINAL SINGLE CELL RNA SEQUENCING OF A NEUROENDOCRINE PROSTATE CANCER MODEL
Funda Sar, Dong Lin, Tunc Morova, Anne Haegert, Robert Bell, Yen-Yi Lin, Cindy Dong, Hui Xue, Stanislav Volik, Nathan Lack, Yuzhuo Wang, Colin Collins

ADJOURN
Organizing Committee

- Dr. Amina Zoubeidi
- Dr. Ben H. Chew
- Dr. Kourosh Afshar
- Dr. Peter C. Black
- Dr. Xuesen Dong

Learning Objectives

- To inform members of the types of clinical and basic science research being conducted in the Department of Urologic Sciences.
- To familiarize members with new innovative research techniques.
- To foster an atmosphere of collaborative research within the Department of Urologic Sciences.

Contact Us

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Location Map

Jim Pattison & Centennial Pavilion

Level 1

Location Map