

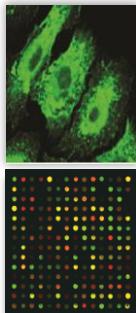
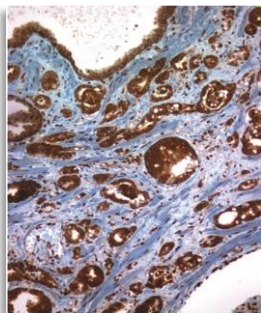


Department of  
**UROLOGIC SCIENCES**  
UBC



**VANCOUVER  
PROSTATE CENTRE**  
A UBC & VGH Centre of Excellence

# 13<sup>th</sup> Annual Lorne D. Sullivan Lectureship & Research Day



**Tuesday, June 18, 2019**

Paetzold Health Education Centre  
Vancouver General Hospital

**Program**

## 2019 Sullivan Research Lecturer

### Dr. Christopher P. Evans

Professor and Chairman, Department of Urologic Surgery  
University of California Davis School of Medicine  
President, Society of Urologic Oncology



Dr. Evans is professor and chairman of the Department of Urologic Surgery at University of California Davis School of Medicine and a member of the UC Davis Comprehensive Cancer Center. Dr. Evans attended Dartmouth Medical School on a Health Professional Services Program scholarship and served on active duty in the United States Army, including two years as Chief of Experimental Surgery at the Walter Reed Army Institute of Research. Dr. Evans completed surgery and urology training at the University of California, San

Francisco where he was also a National Kidney Foundation Scholar. He completed fellowship training in urologic oncology at the University of Texas, M.D. Anderson Cancer Center. He came to UC Davis in 1997 and he was also Director of Urology Research. In 2006, Dr. Evans became Department Chairman. Dr. Evans' practice is dedicated to the management of patients with urologic malignancies.

Dr. Evans' research laboratory focuses on prostate cancer; specifically, mechanisms signaling the androgen receptor to activate prostate cancer growth and progression following castration. His laboratory has developed models to study this and identified novel mechanisms that activate the androgen receptor. His laboratory work tested new agents and brought them from bench studies to animal models to clinical trials.

Dr. Evans is President of the Society of Urologic Oncology. He is an elected member of the American Association of Genitourinary Surgeons. His research laboratory has received funding from the National Institutes of Health, Department of Defense, Prostate Cancer Foundation, Stand Up To Cancer, New York Academy of Medicine, and the American Cancer Society. He has published over 170 peer-reviewed articles.

# Program

## Welcome

8:00 AM – 8:15 AM

**Dr. Martin Gleave**

Distinguished Professor and Head,  
Department of Urologic Sciences, University of British Columbia  
Executive Director, Vancouver Prostate Centre  
BC Leadership Chair in Prostate Cancer Research  
Chief Executive Officer, PC-TRIADD

**Dr. Robert McMaster**

Vice President Research, Vancouver Coastal Health  
Executive Director, Vancouver Coastal Health Research Institute  
Executive Associate Dean Research,  
Faculty of Medicine, University of British Columbia

## Lorne D. Sullivan Lectureship

8:15 AM – 8:55 AM

**Targeting the Androgen Axis in Prostate  
Cancer: Successes and Failures in Translational  
Research**

**Dr. Christopher P. Evans**

Professor and Chairman, Department of Urologic Surgery  
University of California, Davis, School of Medicine  
President, Society of Urologic Oncology

## Session I: PCa, Beyond the Androgen Receptor

(7-minute talk and 3-minute Q&A)

8:55 AM – 9:45 AM

**Moderator: Dr. Amina Zoubeidi**

8:55 AM – 9:05 AM

**TREATMENT-INDUCED AR REPROGRAMMING  
UNDERLIES LINEAGE INFIDELITY IN ADVANCED  
PROSTATE CANCER**

Alastair Davies, Shaghayegh Nouruzi, Daksh Thaper, Fatih Karaođlanođlu, Soojin Kim, Sahil Kumar, Chiara Bostock, Loredana Puca, Jennifer Bishop, Ladan Fazli, Martin Gleave, Haojie Huang, David Goodrich, Housheng Hansen He, Luke Selth8, Faraz Hach, Himisha Beltran4, and Amina Zoubeidi

9:05 AM – 9:15 AM

**EVALUATION OF SYSTEMATIC ALTERATIONS ON  
TRANSCRIPTOME, TRANSLATOME AND  
PROTEOME BY ANDROGEN RECEPTOR  
BLOCKADE THERAPY IN PROSTATE CANCER**

Fan Zhang, Chidi Molokwu, Raunak Shrestha, Robert Bell, Syam Prakash Somasekharan, Gian Luca Negri, Neetu Saxena, Anders Kristensen, Sue Ettinger, Anne Haegert, Dong Lin, Stephane Le Bihan, Faraz Hach, Ladan Fazli, YZ Wang, Colin Collins, Poul Sorensen, Martin Gleave

- 9:15 AM – 9:25 AM**      **IDENTIFYING THE GENOMIC FEATURES OF *AKT1* / *PIK3CA* MUTANT METASTATIC PROSTATE CANCER USING CIRCULATING TUMOUR DNA**  
Andrew Murtha, Cameron Herberts, Simon Fu, Sinja Taavitsainen, Matti Annala, Gillian Vandekerkhove, Kevin Beja, Yulia Loktionova, Elena Schönlaui, Kim N. Chi, Alexander W. Wyatt
- 9:25 AM – 9:35 AM**      **HETEROGENEITY AND EVOLUTION IN MISMATCH REPAIR DEFECTIVE METASTATIC PROSTATE CANCER**  
Elie Ritch, Simon Fu, Cameron Herberts, Evan W Warner, Sinja Taavitsainen, Andrew Murtha, Gillian Vandekerkhove, Kevin Beja, Yulia Loktionova, Daniel Khalaf, Igal Kushnir, Cristiano Ferrario, Matti Annala, Kim N Chi, Alexander W Wyatt
- 9:35 AM – 9:45 AM**      **MOLI: MULTI-OMICS LATE INTEGRATION WITH DEEP NEURAL NETWORKS FOR DRUG RESPONSE PREDICTION**  
Hossein Sharifi-Noghabi, Olga Zolotareva, Colin C. Collins, and Martin Ester

## State of Art Lecture I

- 9:45 AM – 10:00 AM**      **Utilizing Technological Platforms for Advancing Sperm Identification and Selection**  
  
**Dr. Ryan Flannigan**  
 Assistant Professor, Department of Urologic Sciences

## Break and Posters 10:00 AM – 10:30 AM

## Session II: Bladder and kidney Cancers

(7-minute talk and 3-minute Q&A)

- 10:30 AM – 11:10 AM**      **Moderator: Dr. Alan So**
- 10:30 AM – 10:40 AM**      **IDENTIFY: The Investigation and DETection of urological Neoplasia in paTients reFerred with suspected urinarY tract cancer: A multicentre analysis**  
Miles P. Mannas, Tae Lee, Brian Mayson, Peter C. Black, Sinan Khadhour, Kevin M. Gallagher, Kenneth R. MacKenzie, Taimur T. Shah, Chuanya Gao, Sacha Moore, Eleanor Zimmermann, Eric Edison, Matthew Jefferies, Arjun Nambiar, John S. McGrath, Veeru Kasivisvanathan, The IDENTIFY Study Group

**10:40 AM – 10:50 AM    CLINICAL CHARACTERISTICS AND OUTCOMES FOR YOUNG PATIENTS WITH ADVANCED UROTHELIAL CARCINOMA**

Cyrus Chehroudi, Jean-Michel Lavoie, Peter C. Black, Bernhard Eigl

**10:50 AM – 11:00 AM    THE PROGNOSTIC VALUE OF THE NEUTROPHIL-TO-LYMPHOCYTE RATIO IN PATIENTS WITH MUSCLE-INVASIVE BLADDER CANCER TREATED WITH NEOADJUVANT CHEMOTHERAPY AND RADICAL CYSTECTOMY**

Anna J. Black, Homayoun Zargar, Kamran Zargar-Shoshtari, Adrian S Fairey, Laura S Mertens, Colin P Dinney, Maria C Mir, Laura-Maria Krabbe, Michael S Cookson, Niels-Erik Jacobsen, Nilay Gandhi, Joshua Griffin, Jeffrey S Montgomery, Nikhil Vasdev, Evan Y Yu, Evangelos Xylinas, Nicholas J Campain, Wassim Kassouf, Marc A Dall'Era, Jo-An Seah, Cesar E Ercole, Simon Horenblas, John S McGrath, Jonathan Aning, Shahrokh F Shariat, Jonathan L Wright, Andrew C Thorpe, Todd M Morgan, Jeff M Holzbeierlein, Trinity J Bivalacqua, Scott North, Daniel A Barocas, Yair Lotan, Petros Grivas, Andrew J Stephenson, Jay B Shah, Bas W van Rhijn, Philippe E Spiess, Siamak Daneshmand, Srikala S Sridhar, Peter C Black

**11:00 AM – 11:10 AM    PLASMA CIRCULATING TUMOUR DNA IS SCARCE AND CONFOUNDED BY CLONAL HEMATOPOIESIS IN METASTATIC RENAL CELL CARCINOMA**

Jack VW Bacon, Matti Annala, Maryam Soleimani, Jean-Michel Lavoie, Kim N Chi, Christian Kollmannsberger, Alexander W Wyatt, Lucia Nappi

**Session III: Treatment Resistance and Cellular Plasticity**

(7-minute talk and 3-minute Q&A)

**11:10 AM – 11:50 AM    Moderator: Dr. Michael Cox**

**11:10 AM – 11:20 AM    FUNCTIONAL GENOMIC SCREEN FOR CISPLATIN RESISTANCE PATHWAYS IN MUSCLE-INVASIVE BLADDER CANCER USING A GENOME-WIDE CRISPR KNOCKOUT SCREEN**

Gunjan Kumar, Elie Ritch, Timo Nykopp, Davide Tortora, Alexander Wyatt, Mads Daugaard, and Peter C. Black

**11:20 AM – 11:30 AM    DISCOVERY OF A POTENTIAL EPIGENETIC REGULATOR AS EARLY DRIVER IN NE TRANSDIFFERENTIATION**

Yu Wang, Xinpei Ci, Dong Lin, Yuzhuo Wang

- 11:30 AM – 11:40 AM**     **VALIDATING SMALL-MOLECULE N-MYC INHIBITORS AS POTENTIAL THERAPIES FOR NEUROENDOCRINE PROSTATE CANCER**  
 Anastasia Kalyta, Kriti Singh, H  l  ne Morin, Eric Leblanc, Nada Lallous, Joseph Lee, Lavinia A. Carabet, Anh-Tien Ton, Fuqiang Ban, Artem Cherkasov & Paul S. Rennie
- 11:40 AM – 11:50 AM**     **SELECTIVE INHIBITION OF TRANSCRIPTION FACTOR BRN2 AS A TREATMENT STRATEGY FOR NEUROENDOCRINE PROSTATE CANCER**  
Daksh Thaper, Ravi Munuganti, Sahil Kumar, Soojin Kim, Loredana Puca, Sepideh Vahid, Shaghayegh Norouzi, Olena Sivak, Adeleke Aguda, Dwaipayan Ganguli, Shengyu Ku, Colm Morrissey, Himisha Beltran and Amina Zoubeidi

**Lunch and Posters 11:50 AM – 12:45 PM**

**Session IV: Technology, Functional Urology & Pediatrics**

(7-minute talk and 3-minute Q&A)

- 12:45 PM – 1:55 PM**     **Moderator: Dr. Ryan Paterson & Dr. Lynn Stothers**
- 12:45 PM – 12:55 PM**     **CLINICAL EVALUATION OF SONOUROFLOWMETRY**  
Louisa Ho, Mark Dawidek, Rohit Singla, Angela Cho & Christopher Nguan
- 12:55 PM – 1:05 PM**     **INDWELLING URETERAL STENT PLACEMENT INDUCES APERISTALSIS, INJURY AND FIBROSIS**  
Kymora B. Scotland, Lu Wang, Chun Seow, Ben H. Chew, Dirk Lange
- 1:05 PM – 1:15 PM**     **CORTICAL CONTROL OF BLADDER STORAGE AND EMPTYING USING FUNCTIONAL NEAR INFRARED SPECTROSCOPY (fNIRS)**  
 Lynn Stothers, Jennifer A. Locke, Andrew Macnab, Adam Klausner, John Speich
- 1:15 PM – 1:25 PM**     **GLOBAL SURGERY: SURVEYING UNMET PEDIATRIC UROLOGICAL NEEDS IN LOW AND MIDDLE INCOME COUNTRIES**  
Phyllis Kisa, Kourosh Afshar, Andrew E. MacNeily
- 1:25 PM – 1:35 PM**     **UPDATE ON RENAL CALCULUS TARGETING USING MACHINE LEARNING FOR EXTRACORPOREAL SHOCKWAVE LITHOTRIPSY**  
 Rohit Singla, Colin Lundeen, Connor M Forbes, David Hogarth, Christopher Nguan

**1:35 PM – 1:45 PM**      **EVALUATION OF YOUTUBE VIDEO CONTENT RELATING WORLD PROFESSIONAL ASSOCIATION FOR TRANSGENDER HEALTH SURGICAL STANDARD OF CARE GUIDELINES FOR SEX REASSIGNMENT SURGERY**  
Jacqueline Li, Lynn Stothers, Andrew Macnab, [Jennifer A. Locke](#), Alex Kavanagh

**1:45 PM – 1:55 PM**      **WHAT IS THE RELATIONSHIP OF STRESS TO PATIENTS' STONE-RELATED QUALITY OF LIFE?**  
[Colin Lundeen](#), Jonathan Lim, Kymora Scotland, Reza Safaee Ardekani, Kristina Penniston, Necole Streeper, Thomas Chi, Jaime Landman, Davis Viprakasit, Ben H. Chew

## State of Art Lecture II

**1:55 PM – 2:10 PM**      **The Genome of Metastatic Prostate Cancer as a Biomarker**  
  
**Dr. Alex Wyatt**  
Assistant Professor, Department of Urologic Sciences

## Session V

(7-minute talk and 3-minute Q&A)

**2:10 PM – 2:50 PM**      **Moderator: Dr. Mads Daugaard**

**2:10 PM – 2:20 PM**      **G3BP1-ASSISTED TRANSCRIPT COMPARTMENTALISATION SUPPORTS SELECTIVE PROTEIN SYNTHESIS IN RESPONSE TO OXIDATIVE STRESS**  
[Syam Prakash Somasekharan](#), Fan Zhang, Neethu Saxena, Grace Kwong, Caitlin Low, Robert Bell, Nikolay Stoynov, Leonard Foster, Martin Gleave, Poul H Sorensen

**2:20 PM – 2:30 PM**      **GLYCOSAMINOGLYCANS SERVE TO PROTECT CANCER CELLS FROM STRESS**  
[Maj Sofie Ørum-Madsen](#), Charlotte Spliid, Morgan Roberts, Ali Salanti, Sarah Truong, Poul Sorensen, Thomas M. Clausen and Mads Daugaard

**2:30PM – 2:40 PM**      **A MICROFLUIDIC CELL MIGRATION ASSAY ENABLING ANTICANER DRUG TESTING OF *EX-VIVO* TUMOR CELLS**  
[Emily S. Park](#), Jeong Hyun Lee, Kerryn Matthews, Peter C. Black, and Hongshen Ma

**2:40PM – 2:50 PM**      **RAPID DETECTION OF CIRCULAR RNA THROUGH PSEUDO-ALIGNMENT SCHEME**  
[Hossein Asghari](#), Yen-Yi Lin, Yang Xu, Colin C. Collins, and Faraz Hach

## **Organizing Committee**

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

## **Learning Objectives**

- To inform members of the types of clinical and basic science research being conducted at 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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## Jim Pattison & Centennial Pavilion

