7th ANNUAL
LORNE D. SULLIVAN
LECTURESCHIP AND RESEARCH DAY

Tuesday, June 18th, 2013

Paetzold Health Education Centre Auditorium
(Jim Pattison Pavilion, VGH)
PROGRAM

0800: WELCOME TO RESEARCH DAY

• Dr. Larry Goldenberg, Professor and Head, Department of Urologic Sciences, UBC
• Dr. Robert McMaster, VP Research, Vancouver Coastal Health, Executive Director, VCHRI, Associate Dean Research, Faculty of Medicine, UBC

0815: SULLIVAN LECTURE (30 min)

Visiting Professor
PAUL H. LANGE, MD, FACS
Pritt Chair in Prostate Cancer Research
Professor and Chairman Emeritus, Department of Urology
University of Washington School of Medicine (UW)
Director, Institute of Prostate Cancer Research: UW and Fred Hutchinson Cancer Research Center

“We fail too often at loco-regional control after radical prostatectomy: why and can we do better”

Session 1 – Moderator: Dr. William Gourlay (7 min talk, 3 min Q&A)

0845: Ryan Flannigan, MD, PGY-2
“Organ procurement surgery as a means of increasing open surgical experience during urology residency training”

0855: Hilary Brotherhood, MD, PGY-1
“A case series: surgical reconstruction for idiopathic scrotal elephantiasis”

0905: Caigan Du, PhD, Assistant Professor, Department of Urologic Sciences, UBC
“Promotion of cell proliferation by clusterin for renal tissue regeneration and renoprotection following ischemia-reperfusion injury”

0915: Babak Shadgan, MD, MSc Sports Med, PhD, MSFHR Postdoctoral Fellow, Department of Urologic Sciences, UBC
“Non-invasive monitoring of bladder pressure using a novel method of photonics signal processing”

0925: Boris Friedman, MD, Uro-Gynecology Fellow
“Defining detrusor hemodynamics and oxygenation in women with overactive bladder (OAB) using transcutaneous near infra-red spectroscopy (NIRS) compared to urodynamics study (UDS)”

0935: Samir Bidnur, MD, PGY-2
“Glomerular filtration rate dynamics following unilateral donor nephrectomy of live kidney donors”

0945: Nathan Hoag, MD, PGY-4
“Posterior urethral valves, unilateral vesicoureteral reflux and renal dysplasia (VURD) syndrome: does it really preserve long-term renal function?”
State of the Art Talk – 10 minutes

0955: Richard Wassersug, PhD, Co-Director, Prostate Cancer Supportive Care Program, Department of Urologic Sciences, UBC
“The new prostate cancer supportive care program of the Vancouver Prostate Centre”

1005 -1020: HEALTH BREAK

Session 2 – Moderator: Dr. Alan So (7 min talk, 3 min Q&A)

1020: Philip Edgcumbe, MD, PhD Student, Biomedical Engineering Program
“Advances in ultrasound-endoscope calibration for surgery using the da vinci surgical system”

1030: Adrienne Law, Research Assistant, The Stone Centre at VGH
“A comparative analysis of the gut microbiome of kidney stone formers with non-stone formers”

1040: Claudia Janssen, MD, Postdoctoral Fellow, The Stone Centre at VGH
“The recovery of ureteral peristalsis following transient obstruction in a novel murine model”

1050: Joey Lo, MSc Student, Department of Urologic Sciences, UBC
“Novel antimicrobial peptide coating to prevent catheter-associated urinary tract infections”

1100: Reza Hamidizadeh, MD, PGY-3
“Surveillance guidelines for upper tract urothelial carcinoma based on recurrence patterns”

1110: Peter Black, MD, Assistant Professor, Department of Urologic Sciences, UBC
“Development of a genomic-clinical classifier for predicting progression after radical cystectomy in patients with muscle invasive bladder cancer”

1120: Wolfgang Jaeger, MD, Postdoctoral Fellow, Vancouver Prostate Centre
“Ultrasound-guided intramural inoculation of orthotopic bladder cancer xenografts”

1130: David Youssef, MD, PGY-1
“Multicenter assessment of neoadjuvant chemotherapy for muscle-invasive bladder cancer”

1140: Michael Metcalfe, MD, PGY-3
“A standardized protocol for identifying and counting lymph nodes harvested by pelvic lymph node dissection at the time of radical cystectomy”

1150: Tetsutaro Hayashi, MD, Postdoctoral Fellow, Vancouver Prostate Centre
“Antineoplastic effects of specific inhibition of notch-2 in bladder cancer”

1200 -1230: LUNCH BREAK (Paetzold Multi Purpose Room, Jim Pattison Pavilion)
Session 3 – Moderator: Dr. Michael Cox (7 min talk, 3 min Q&A)

1230: Jonathan Aning, MD, Uro-Oncology Fellow
   “Contemporary outcomes of men managed with active surveillance at the vancouver prostate centre”

1240: Julio Lobo, Research Engineer, Department of Electrical and Computer Engineering, UBC
   “Quantitative ultrasound elastography for prostate cancer detection: initial clinical study”

1250: Henry Tran, MD, PGY-2
   “Underutilization of local salvage therapy after primary radiotherapy for prostate cancer”

1300: Mazyar Ghaffari, PhD, Vancouver Prostate Centre
   “TAK-441, a novel investigational smoothened antagonist, delays castration resistant progression in prostate cancer by disrupting paracrine hedgehog signaling”

1310: Nader Al Nakouzi, PhD, MBA, Vancouver Prostate Centre
   “Clusterin downregulation sensitize prostate cancer cells to taxane by modulating mitosis”

1320: Will Beattie, MSc Student, Department of Mechanical Engineering, UBC
   “Label-free cell separation using microfluidic cell traps”

1330: Yoshiaki Yamamoto, MD, Postdoctoral Fellow, Vancouver Prostate Centre
   “Clusterin antisense inhibitor OGX-011 synergizes activity of antisense inhibitor of androgen receptor in MDV3100 resistant prostate cancer”

1340: Ravi Munuganti, PhD Scholar, Vancouver Prostate Centre
   “Novel antagonists that target the binding function 3 site of the androgen receptor”

1350: Sifeng Qu, PhD Student, Interdisciplinary Oncology Program & Vancouver Prostate Centre
   “Enhancement by aneustat (OMN54) of docetaxel anticancer activity in a patient-derived prostate cancer xenograft model”

1400: Subrata Deb, PhD, Research Associate, Vancouver Prostate Centre
   “Abiraterone-mediated blockade of vitamin d₃ inactivation in human liver and intestine in vitro: possible additional anti-cancer benefit”

1410: Paul Toren, MD, Postdoctoral Fellow, Vancouver Prostate Centre
   “Combined Targeting of PI3K/AKT and AR pathways with AZD5363 and enzalutamide induces anticancer activity in preclinical models of resistant prostate cancer”

1420: Joseph Ischia, Uro-Oncology Fellow
   “Targeting IGFBP2 and IGFBP5 in castration and MDV resistant prostate cancer”

State of the Art Talk – 20 minutes (5 min each presenter)

1430-1450 trio – Epithelial Plasticity and NEPC
1430: Jennifer Bishop, PhD, Vancouver Prostate Centre
“Regulation of cell plasticity by the AR: a novel mechanism of enzalutamide resistance”

1435: Alexander Wyatt, PhD, Postdoctoral Fellow, Vancouver Prostate Centre
“Mechanistic insights into the neuroendocrine transdifferentiation of prostate cancer”

1440: Dong Lin, PhD, Postdoctoral Fellow, Vancouver Prostate Centre
“High fidelity patient-derived xenografts for accelerating prostate cancer discovery and drug development”

1445: Shusuke Akamatsu, PhD, Postdoctoral Fellow, Vancouver Prostate Centre
“Identification of PEG10 as a novel therapeutic target against neuroendocrine or metastatic prostate cancer”

1450: ADJOURN
The following posters will be displayed at the Paetzold Atrium in Jim Pattison Pavilion during the breaks.

Tetsutaro Hayashi, MD, Postdoctoral Fellow, Vancouver Prostate Centre  
P01 - “Targeting HER2: trastuzumab-dm1 (T-DM1) is highly effective in HER2-overexpressing bladder cancer”

Justin Lardizabal, MSc student, Brain Research Centre & Vancouver Prostate Centre  
P02 - “Development of a prostate cancer targeted oncolytic herpes simplex virus”

Anna Lapuk, PhD, Research Scientist, Vancouver Prostate Centre  
P03 - “Accurate measurement of androgen receptor (AR) splice variants expression in formalin-fixed, paraffin-embedded tissues using quantitative nuclease protection assay”

Liangliang Liu, PhD, Postdoctoral Fellow, Vancouver Prostate Centre  
P04 - “Mechanisms of the androgen receptor splicing in prostate cancer cells”

Haolong Li, PhD Student, Department of Obstetrics and Gynecology, Vancouver Prostate Centre  
P05 - “Inhibitors of DNA topoisomerase II enhance MDV3100 antagonist activity to the androgen receptor in prostate cancer cells”

Raunak Shrestha, PhD Candidate, Vancouver Prostate Centre  
P06 - “Exploring the biology of prostate cancer progression using systems biology approach”

Pier-Luc Clermont, MSc Student, Department of Experimental Therapeutics, BCCA Cancer Research Centre  
P07 - “Identification of CBX2 as a novel drug target in prostate cancer”

Yan Ting Chiang, PhD Student, Vancouver Prostate Centre  
P08 - “Identification and functional analysis of GATA2 as a novel metastasis-driving gene in prostate cancer”

Abhisek Pradhan, Research Assistant, Department of Obstetrics & Gynaecology, UBC  
P09 - “DNA methylation in the sperm of infertile men with translocations and men without translocations”

Bryan Lin, BSc student, Vancouver Prostate Centre  
P10 - “Delivery of adeno-associated virus plasmid vector with lipid nanoparticles”

Na Li, PhD, Research Associate, Vancouver Prostate Centre  
P11 - “Coordinated loss of CD9 and CD316 expression in the prostate cancer contributes to metastasis and hormone responsiveness”

Geetanjali Kharmate, Postdoctoral Fellow, Vancouver Prostate Centre  
P12 - “Expression of EGFR in exosomes derived from prostate cancer cell lines, LNCap xenograft serum and patient plasma/serum”

Francesco Crea, MD, PhD, Postdoctoral Fellow, Experimental Therapeutics, BCCA Cancer Research Centre
P13 - “Non-coding transcriptome of prostate cancer xenografts reveals novel diagnostic and prognostic biomarkers”

Sunyoung Park, Graduate Student, Department of Mechanical Engineering, UBC

P14 - “Morphological differences between circulating tumour cells and cultured cancer cells”

Yi Xia, PhD, Vancouver Prostate Centre

P15 - “Novel triazole nucleoside targets androgen receptor in prostate cancer via suppressing heat shock factor I”

Fan Mo, Postdoctoral Fellow, Vancouver Prostate Centre

P16 - “Characterization of RNA editing in prostate cancer”

Huifang Li, PhD Student, Vancouver Prostate Centre

P17 - “Characterization of a new class of androgen receptor antagonists with potential therapeutic application in advanced prostate cancer”

Kriti Singh, PhD Student, Vancouver Prostate Centre

P18 - “Small molecule inhibitors targetting the activation function-2 site of estrogen receptor-α”

Wolfgang Jaeger, MD, Postdoctoral Fellow, Vancouver Prostate Centre

P19 - “Silencing notch-1 and notch-3 promotes epithelial-to-mesenchymal transition (EMT) and self-renewal potential in human bladder cancer”

Robert Bell, MSc, Vancouver Prostate Centre

P20 - “Correcting the effect of polyploidy on copy number analysis using fluorescent in situ hybridization”

Barbara Lelj-Garolla, PhD, Research Associate, Vancouver Prostate Centre

P21 - “Inhibition of the small heat shock protein 27 with small molecules”

Nandinee Haq, Graduate Student, Department of Electrical & Computer Engineering, UBC

P22 - “Random forest classification for multiparametric MRI”

Nandinee Haq, Graduate Student, Department of Electrical & Computer Engineering, UBC

P23 - “Deformable registration for multiparametric MRI imaging of prostate”

Dongsheng Ming, Research Associate, Vancouver Prostate Centre

P24 - “Pomegranate extracts impact androgen biosynthesis pathways in vitro and in vivo”

Josselin Caradec, PhD, Vancouver Prostate Centre

P25 - “Transitioned prostate cancer stem cells are hypoxia resistant”

Kevin Tam, MSc Student, Experimental Medicine, Vancouver Prostate Centre

P26 - “Semaphorin 3C drives oncogenesis in RWPE-1 cells”

Mitali Pandey, PhD, Research Associate, Vancouver Prostate Centre

P27 - “Predicative significance of EZH2 expression and H3K27me3 intensity in therapy-naïve and neoadjuvant therapy-treated metastatic prostate cancer”
Iris S U Luk, PhD Student, Vancouver Prostate Centre
P28 - “BIRC6-IAPs dual targeting antisense oligonucleotide as novel therapeutic agents against castration resistant prostate cancer”

Abdulrahman Alsabban, MD, MSc (c), Vancouver Prostate Centre
P29 - “Development of a biolayer interferometry-based assay for studying insulin-like growth factor (IGF)/IGF binding protein interactions”

Amy A Lubik, Postdoctoral Researcher, Vancouver Prostate Centre
P30 - “Paracrine hedgehog as a mediator of stromal cell steroidogenesis that contributes to progression of prostate cancer to castration resistant disease”

Krisi Ketola, PhD, Vancouver Prostate Centre
P31 - “Targeting enzalutamide resistant prostate cancer stem cell phenotype”

Paul Toren, MD, Postdoctoral Fellow, Vancouver Prostate Centre
P32 - “Anti-cancer activity of a novel CYP17 inhibitor in pre-clinical models of castrate resistant prostate cancer”

Paul Gustafson, MD, PGY-3
P33 - “Pediatric procedures in urology residency training: are we meeting the royal college objectives of training?”

Omid Mohareri, PhD Candidate, Department of Electrical and Computer Engineering, UBC
P34 - “Initial clinical experience of using a robotic, registered, transrectal ultrasound guidance system during robot-assisted laparoscopic radical prostatectomy (RALRP)”

Jonathan Aning, MD, Uro-Oncology Fellow
P35 - “Interim analysis of the results from a prospective randomized controlled trial to determine the effect of an early enteral feeding protocol on the clinical outcome in patients undergoing radical cystectomy”

Boris Friedman, MD, Uro-Gynecology Fellow
P36 - “Positional pelvic organ prolapse (POP) evaluation using open magnetic resonance imaging (MRO)”

Ryan Flannigan, MD, PGY-2
P37 - “Infection stones: an old acquaintance, with a new face?”

Elham Hosseini-Beheshti, MSc, PhD Candidate, Vancouver Prostate Centre
P38 - “Exosomes: protein biomarker-rich microvesicles”

Sabrina Rashid, MASc Candidate, Robotics and Control Lab, Department of Electrical Engineering, UBC
P39 - “Classification of benign and malignant glands in prostatic adenocarcinoma”