



Garvan Institute of Medical Research

# Leaders in Science & Society



## Dr Paul C Boutros

Principal Investigator, Informatics & Biocomputing, Ontario Institute for Cancer Research  
Associate Professor, Medical Biophysics, University of Toronto

### “The Three Genomes of Cancer”

**Monday 29 August 2016 12PM, AUDITORIUM**

**Host: Prof David Thomas**

Dr. Paul Boutros pursued his undergraduate education at the University of Waterloo in Chemistry. During the co-op portion of his degree he worked for a wide range of organizations, including the Federal Government, a water-purification company and Petro-Canada. But he found his true calling during a work-term spent at Michigan State University developing computer models of how cells respond to drugs and toxins. Dr. Boutros' undergraduate thesis extended this work to focus on modeling DNA damage, and was awarded First Place in the National Undergraduate Chemistry Conference. In 2004, Paul started his PhD at the Ontario Cancer Institute in Toronto. During his studies he received several awards, including the CIHR/Next Generation First Prize and the Invitrogen Canada Young Investigator Silver Award. After publishing 27 peer-reviewed papers over four years Paul was awarded his PhD in 2008 for his development of novel biomarkers for predicting cancer severity.

In 2008, Paul started his independent research career with an appointment at the Ontario Institute for Cancer Research. Paul is now a Principal Investigator in Informatics & Biocomputing at OICR, and an Assistant Professor in the Departments of Pharmacology & Toxicology and Medical Biophysics at the University of Toronto. His research focuses on personalizing therapy for prostate cancer by developing novel statistical methodologies. He leads the bioinformatics analysis of the sequencing of 500 prostate cancers as part of the Canadian Prostate Cancer Genome Network (CPC-GENE), and is using these data to develop biomarkers for intermediate risk prostate cancer. He is a Prostate Cancer Canada Rising Star in Prostate Cancer Research, a Terry Fox New Investigator Award recipient, and leads the ICGC-TCGA DREAM Somatic Mutation Calling Challenge that is setting global standards for analyzing cancer genomic data.