



University of Toronto
Summer Workshop on
Big Data
for Health

July 3 and 4, 2014
Fields Institute for Research
in Mathematical Sciences
222 College Street
Toronto, ON

Agenda

Thursday, July 3, 2014

5:30 pm – 5:40 pm

WELCOMING REMARKS

Lecture Room (Rm 230), 10 min

France Gagnon, Dalla Lana School of Public Health

5:40 pm – 7:20 pm

KEYNOTE SPEAKERS

100 min

<<Title goes here>> (15 + 10 min)

Peter C. Goodhand, The Global Alliance for Genomics and Health

Research platforms that link “omics” to biobank data – opportunities in Ontario (15 + 10 min)

Thomas J. Hudson, Ontario Institute for Cancer Research

The potential for research using electronic medical records in Ontario (15 + 10 min)

Rick Glazier, Primary Care and Population Health Program, ICES

<<Title goes here>> (15 + 10 min)

Astrid Guttmann, Health System Planning and Evaluation Program, ICES

7:20 pm – 7:30 pm

DISCUSSION

10 min

7:30- pm – 9:30 pm

BUFFET DINNER & CASH BAR

Atrium, Dining and Tea Area, 120 min

Agenda

Friday, July 4, 2014

8:00 am – 9:00 am

BREAKFAST

Atrium, Dining and Tea Area, 60 min

9:00 am – 10:20 am

SESSION 1

Lecture Room (Rm 230), 80 min

Welcome and Introduction

Prabhat Jha, Dalla Lana School of Public Health (5 min)

Cancer Pharmacogenetics, (5 + 5 min)

Geoffrey Liu, Princess Margaret Cancer Centre

Software for the Clinical Implementation of Pharmacogenomic Testing, (5 + 5 min)

Ron Ammar, University of Toronto, Donnelly Centre for Cellular and Biomolecular research

UTOPIAN, (5 + 5 min)

Frank Sullivan, Dept. of Family & Community Medicine and Dalla Lana School of Public Health

The Canadian Primary Care Sentinel Surveillance Network (CPCSSN): Canada's primary care EMR data repository, (5 + 5 min)

Michelle Greiver, University of Toronto, Dept. of Family and Community Medicine

Capturing Well-Structured Patient Data in 5 Minutes (Not Including Questions), (5 + 5 min)

Michael Brudno, University of Toronto, Dept. of Computer Science

Ontario DCIS Cohort, (5 + 5 min)

Eileen Rakovitch, Odette Cancer Research Program, Sunnybrook Research Institute

Medsavant: Database and Search Engine for Genetic Variants, (5 + 5 min)

Marc Fiume, University of Toronto, Dept. of Computer Science

10:20 am – 10:40 am

BREAK & NETWORKING

Atrium, Dining and Tea Area, 20 min.

10:40 am – 12:10 pm

SESSION 2

Lecture Room (Rm 230), 90 min

Public Perceptions on Secondary Use of Health Information and Biological Samples for Research and Planning, (5 + 5 min)

Don Willison, Dalla Lana School of Public Health, and Institute for Health Policy, Management and Evaluation

A Tale of Two Linkages (5 + 5 min)

Laura Rosella, Dalla Lana School of Public Health

Modelling Health Trajectories and Impact on Prevention Programs, (5 + 5 min)

Laurent Briollais, Lunenfeld-Tanenbaum Research Institute

The Connaught Global Challenge Opportunity: The GEMINI program, (5 + 5 min)

Jennifer Gommerman, University of Toronto, Dept. of Immunology

Exposome: Looking at the Air Pollution Exposure of Populations Through the Lens of Individuals, (5 + 5 min)

Greg Evans, University of Toronto, Dept. of Chemical Engineering and Applied Chemistry

Agenda

Friday, July 4, 2014

- Disease Mapping With Messy Data*, (5 + 5 min)
Patrick Brown, Cancer Care Ontario
- Big Data for Public Health - Prospects for Ontario*, (5 + 5 min)
John McLaughlin, Public Health Ontario
- Big Data at PHO: Infectious Diseases*, (5 + 5 min)
Natasha Crowcroft, Public Health Ontario
- Classification Algorithms in Global Mortality*, (5 + 5 min)
Peter Miasnikof, St. Michael's Hospital and Dalla Lana School of Public Health, University of Toronto, Toronto, Ontario, Canada
- 12:10 pm – 1:30 pm **LUNCH & NETWORKING**
Atrium, Dining and Tea Area, 80 min
- 1:30 pm – 3:00 pm **SESSION 3**
Lecture Room (Rm 230), 80 min
- Causal Inference and Observational Studies – The Role of the Propensity Score*, (5 + 5 min)
Peter Austin, Institute for Clinical Evaluative Sciences (ICES)
- Using Primary Care EMR Data for Secondary Purposes and the Need for Text Mining*, (5 + 5 min)
Karen Tu, Institute for Clinical Evaluative Sciences (ICES) and University of Toronto, Dept. of Family and Community Medicine
- The Cancer Genome Collaboratory*, (5 + 5 min)
Lincoln Stein, Ontario Institute for Cancer Research
- Visual data mining in integrative cancer informatics*, (5 + 5 min)
Igor Jurisica, Princess Margaret Cancer Centre, University Health Network
- Benchmarking & Cancer*, (5 + 5 min)
Paul Boutros, Ontario Institute for Cancer Research
- One Genome, Many Epigenomes, Machine Learning*, (5 + 5 min)
Michael Hoffman, Princess Margaret Cancer Centre
- Understanding Human Gene Regulation and Disease With Comparative Genomics*, (5 + 5 min)
Michael Wilson, The Hospital for Sick Children Research Institute
- Machine learning for biological and clinical data to impact patient care
Quaid Morris, Centre for Addiction and Mental Health
- Integration of Functional Data With Genetic Association Data*, (5 + 5 min)
Jo Knight, Centre for Addiction and Mental Health
- 3:00 pm – 3:30 pm **DISCUSSION AND CLOSING REMARKS**
90 min
- Prabhat Jha, Dalla Lana School of Public Health
Peter Goodhand, The Global Alliance for Genomics and Health
- 3:30 pm **ADJOURNMENT**