

The Fifty-Sixth Annual Great Lakes Genomics Conference

- DATES:** May 17-18, 2018
- LOCATION:** 89 Chestnut Street, University of Toronto
- ACCOMMODATION:** Conference rates are not available at the Metropolitan Hotel or at the University of Toronto Residences. Please make your reservations early!
- Doubletree by Hilton:** 108 Chestnut St, Toronto (formerly The Metropolitan Hotel)
Telephone: 1 (800) 668-6600 or 1 (416) 599-0555
- University of Toronto Residences:** 89 Chestnut St, Toronto
Telephone: 1 (416) 977-0707 – press 0

GLGC REGISTRATION FEES

1. Advance registration (by April 15, 2018)

Regular: \$150 (CDN or USD)	One Day: \$100 (CDN or USD)
Student: \$70 (CDN or USD)	One Day: \$40 (CDN or USD)

2. Regular registration (April 16 – May 18, 2018)

Regular: \$200 (CDN or USD)	One Day: \$150 (CDN or USD)
Student: \$100 (CDN or USD)	One Day: \$70 (CDN or USD)

A continental breakfast and lunch for both days of the meeting, as well as a wine and cheese after Thursday's sessions, are included in the registration fee.

Online registration is available at: <https://register.eventmobi.com/GLGC18/>

About the Event

What is GLGC all about?

The Great Lakes Genomics Conference is held in May of each year in Toronto, Ontario, Canada. Attendees from all over Canada and the USA come to share and discuss their experiences in the field of Clinical Laboratory Genetics. This conference is of particular interest to Geneticists (clinical and laboratory), Undergraduate and Graduate Students; Molecular Pathology and Genetics Fellows and Technologists working in the field. The 56th GLGC will take place May 17-18, 2018, in Toronto.

What's in a name?

The original name of the meeting was the Great Lakes Chromosome Conference (GLCC). Since Cytogenetics and Molecular Genetics techniques have become more aligned the GLCC has changed to incorporate genomics technologies and their use in translational research and clinical practice. This is the first year of the newly renamed Great Lakes Genomics Conference (GLGC).

HIGHLIGHTS OF THE 2018 GREAT LAKES GENOMICS CONFERENCE

The H. Allen Gardner Memorial Lecturer:

Dr. David Malkin

Director, Cancer Genetics Program

Professor, Pediatrics and Medical Biophysics, University of Toronto

“Combined Genome and Transcriptome Analysis – The Kids Cancer Sequencing Program (KICS)”

Here is a sampling of topics this year:

George Charames, Co-Director Molecular Genetics Laboratory, Mount Sinai Hospital

- RNAseq in Sarcomas

Michael Brudno, Director, Centre for Computational Medicine, Sr. Scientist, Genetics and Genomic Biology, Hospital for Sick Children, Toronto, Ontario

- PhenoTips: Global Genotype-Phenotype Correlations

Mehran Karimadeh Reghbaty, Medical Biophysics, University of Toronto

- Virtual ChIP-seq in Renal Carcinoma: predicting transcription factor binding by learning from the transcriptome

Paul Harm, Associate Director, Molecular Dermatopathology Diagnostic Laboratory Michigan Medicine, University of Michigan Medical School

- Practical Applications of Molecular Studies in Melanoma Diagnosis

Carl Virtanen, Associate Director, HPC4 Health, Princess Margaret Hospital

- Bioinformatic Approaches to Big Data and Cloud Computing

Abdul Noor, Division of Diagnostic Medical Genetics, Mt. Sinai Hospital

- Patient choice and clinical outcomes following positive prenatal microarray results

...and the always popular ‘interesting case and problems’ session will be coordinated by:

Andrea Vaags, Cytogenomicist and Discipline Lead, Molecular Genetics and Cytogenetics, Trillium Health Partners, Mississauga, Ontario

- Group presentation on interesting cases or lab-related problems
- **SUBMIT YOUR CASES NOW!**

CALL FOR PRESENTATIONS

The GLGC is divided into three sessions:

Session I: Cancer Genomics

Session II: Clinical Problems

Session III: New Technologies

The following guidelines are suggested:

1. Please email title/abstract to adam.smith@uhn.ca. Please send a tentative talk title and abstract.
2. Titles and abstracts are accepted until timeslots are filled.
3. An email confirmation will be sent from our conference website ("EventMobi") and final title and abstract info can be entered directly to the web site.
4. Presentations should be no more than 20 minutes, which includes a 5-minute question and discussion period.
5. A laptop will be available at the meeting. Presentations should be in PowerPoint format on a USB key.
6. **Early Submission Prizes: Abstracts received by April 15 will be eligible for 3 random draws of \$100.00 CDN each to be held at the meeting.**
7. We are a friendly, receptive crowd, so you have nothing to lose by participating. We rely on you to make the meeting a success! So please select your cases now.
8. Have an interesting case, but don't want to give an entire presentation? We have the perfect venue for you! Be part of the Group Presentation of Interesting Cases. Presentations should be brief (5-10 minutes) and can be on any topic. This is a great opportunity to share your solutions to difficult problems, or to seek collaborators for areas of research interest. Contact Dr. Andrea Vaags (Andrea.Vaags@thp.ca) to be part of this great opportunity. Access to presenting time is limited, so acceptance is on a first-come basis.

Please note, as required by the Faculty of Medicine, University of Toronto, all speakers will be requested to **disclose to the audience, any real or apparent conflict of interest** that may have a direct bearing on the subject matter of this program. Please include a PowerPoint slide (second slide after the title/topic slide) declaring any apparent conflicts(s) of interest that may have a direct bearing on the subject matter of this program.

PRELIMINARY PROGRAM

All events to be held on the 2nd floor, at University of Toronto, 89 Chestnut

Thursday, May 17

- 0815-0845 **Registration and morning wake-up (coffee, muffins)**
Centre Room, 2nd Floor
- 0845- 0900 **Introductory Remarks**
- Session I Cancer Genomics Chair: TBA**
- 0900-0920 Submit an abstract for a Short Presentation
- 0920-0950 Submit an abstract for a Short Presentation
- 0950-1030 **Virtual ChIP-seq in Renal Carcinoma: predicting transcription factor binding by learning from the transcriptome**
Mehran Karimadeh Raghbati (University of Toronto, Toronto, Canada)
- 1030-1100 **Break**
- 1100-1130 **RNAseq in Sarcoma**
George Charames (Mt. Sinai Hospital, Toronto, Canada)
- 1130-1200 **Practical Applications of Molecular Studies in Melanoma Diagnosis**
Paul Harms (Univeristy of Michigan Medical School, Ann Arbor, Michigan)
- 1200-1330 **Lunch Provided**
- Session II Clinical Problems Chair: TBA**
- 1330-1350 **Patient Choice and Clinical Outcomes Following Positive Prenatal Microarray Results**
Abdul Noor (Mount Sinai Hospital, Toronto, ON)
- 1350-1450 **Group presentation on interesting cases or lab-related problems**
Andrea Vaags (Trillium Health Partners, Mississauga, ON)
- 1450-1520 **Break**
- 1520-1540 Submit an abstract for a Short Presentation
- 1540-1600 Submit an abstract for a Short Presentation
- 1600-1700 Short Presentations
- 1700-1800 **Wine & Cheese Reception**
Terrace (3rd Floor)



Friday, May 18

0830-0900 **Registration and morning wake up**
Centre Room, 2nd Floor

Session III **New Technologies** **Chair: TBA**

0900-0920 Submit an abstract for a Short Presentation

0920-0950 Submit an abstract for a Short Presentation

0950-1030 **PhenoTips: Global Genotype-Phenotype Correlations**
Michael Brudno (Hospital for Sick Children, Toronto, Canada)

1030-1100 **Break**

1100-1200 Short Presentations

1200-1330 **Lunch Provided**

Keynote Address

1330-1430 **Combined Genome and Transcriptome Analysis – The Kids Cancer Sequencing Program (KICS)**
Dr. David Malkin (Hospital for Sick Children, Toronto, Canada)

1430-1445 Conclusion and Adjournment of GLGC