

TRAINEE SYMPOSIUM – TUESDAY MAY 28th

All oral presentations and poster sessions will take place in the Innovation Complex.

12:30 PM - 1:00 PM **Registration and Networking**

1:00 PM – 1:10 PM **Opening Remarks**

1:10 PM - 3:10 PM **Career session**

1:10 PM Joshua Mogyoros, Research and Development Scientist, MesoMat

1:40 PM Danielle Tokarz, Assistant Professor, Saint Mary's University

2:10 PM Daaf Sandkuijl - Senior Optical Scientist, Fluidigm

2:40 PM Ricky Ghoshal - Director, Strategic Development, Glyantis Inc. (Mirexus Biotechnologies)

3:10 PM - 3:30 PM **Coffee Break**

3:30 PM - 5:30 PM **Trainee Talks**

3:30 PM Rashik Ahmed, Graduate Student, McMaster University
Atomic Resolution Map of the Soluble Amyloid Beta Assembly Toxic Surfaces

3:45 PM Aidan Tremblett, Graduate Student, Memorial University of Newfoundland
Atomic Resolution Map of the Soluble Amyloid Beta Assembly Toxic Surfaces

4:00 PM Jennifer Lou, Graduate Student, University of Toronto
Cryo-EM Study of Transient Protein Interactions in Fungal Type I FAS Catalysis

4:15 PM Adree Khondker, Undergraduate Student, McMaster University
A Molecular Mechanism for Polymyxin-induced Membrane Damage that predicts Bacterial Resistance

4:30 PM Anita Rágyanszki, Postdoctoral Fellow, York University
Artificial Neural Networks as a Tool to Describe Peptide Conformational Changes

4:45 PM Daryl Good, Graduate Student, University of Guelph
Characterizing the Hierarchy of Internal Dynamics in a Membrane Protein by Solid State NMR

5:00 PM Steven Chen, Graduate Student, University of Toronto
High-throughput Investigation of Rhodopsin Function using Yeast

5:15 PM Sara Molladavoodi, Postdoctoral Fellow, Wilfrid Laurier University
Collagen Contraction Induced by Annulus Fibrosus Cells of the Intervertebral Disc

6:00 PM – 8:00 PM **BSC 2019 Opening Reception**
North Building Atrium

SCIENTIFIC PROGRAM**Wednesday, May 29th**

9:00 AM **Welcoming remarks**
BSC 2019 Organizing Committee

9:10 PM – 9:50 AM **Plenary Talk**
Chair: Claudiu Gradinaru (University of Toronto Mississauga)

Samuel Hess, University of Maine

9:50 AM - 10:45 AM **Session 1: Biophotonics**
Chair: Virgis Barzda (University of Toronto Mississauga)

9:50 AM Paul Wiseman, McGill University

10:10 AM Danielle Tokarz, Saint Mary's University

10:30 AM Trainee talk: Pablo Dans, Institute for Research in Biomedicine Barcelona

10:45 AM - 11:15 AM **Coffee Break**

11:15 AM - 12:30 PM **Session 2: Membranes**
Chair: Simon Sharpe (Sickkids)

11:15 AM Voula Kanelis, University of Toronto Mississauga

11:35 AM Suzana Straus, University of British Columbia

11:55 AM Jenifer Thewalt, Simon Fraser University

12:15 PM Trainee talk: Javier Porro-Suardiaz, Concordia University

12:30 PM - 2:00 PM **Lunch Break**

2:00 PM – 3:30 PM **Poster Session and Refreshments**

3:30 PM – 4:45 PM **Session 3: Cellular Biophysics**
Chair: Maikel Rheinstadter (McMaster University)

3:30 PM Cecile Fradin, McMaster University

3:50 PM Jon Rocheleau, University of Toronto

4:10 PM Anton Zilman, University of Toronto

4:30 PM Trainee talk: Sebastian Himbert, McMaster University

4:45 PM – 5:15 PM **Award Lecture: Young Investigator of the BSC**

Chair: John Baenziger (University of Ottawa)

Roberto Chica, University of Ottawa

5:15 PM – 7:00 PM **Poster Session and Mixer**

Thursday, May 30th

9:00 AM - 10:15 AM **Session 4: Single Molecule Biophysics I**

Chair: Claudiu Gradinaru (University of Toronto Mississauga)

9:00 AM Sabrina Leslie, McGill University

9:20 AM Michael Woodside, University of Alberta

9:40 AM Haw Yang, Princeton University

10:00 AM Trainee talk: Gregory-Neal Gomes, University of Toronto Mississauga

10:15 AM - 10:45 AM **Coffee Break and Posters**

10:45 AM - 12:00 PM **Session 5: Receptors and Cell Signalling**

Chair: Cecile Fradin (McMaster University)

10:45 AM Kalina Hristova, Johns Hopkins University

11:05 AM Christopher Yip, University of Toronto

11:25 AM Scott Prosser, University of Toronto Mississauga

11:45 AM Trainee talk: Wendy Wang, University of Toronto

12:00 PM – 1:40 PM **Lunch Break and BSC Business Meeting**

1:40 PM - 2:20 PM **Plenary Talk**

Chair: Sarah Rauscher (University of Toronto Mississauga)

Tanja Mittag, St. Jude Children's Research Hospital

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- 2:20 PM - 3:20 PM **Session 6: Intrinsically Disordered Proteins**
Chair: Sarah Rauscher (University of Toronto Mississauga)
- 2:20 PM Andrea Sorrano, Washington University in St. Louis
- 2:40 PM Joan-Emma Shea, University of California San Diego
- 3:00 PM Julie Forman-Kay, Sickkids
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3:20 PM - 3:50 PM **Coffee Break and Posters**

- 3:50 PM - 4:50 PM **Fellow of the Biophysical Society of Canada & National Lecture**
Chair: John Baenziger
- Hue Sun Chan, University of Toronto
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4:55 PM – 6:00 PM **Travel to Waterside Inn (15 Stavebank Rd S, Mississauga)**

6:00 PM - 10:00 PM **Conference Banquet at Waterside Inn**

Friday, May 31st

- 9:00 AM - 9:40 AM **Plenary Talk**
Chair: Andreas Hilfinger (University of Toronto Mississauga)
- Johan Paulsson, Harvard University
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- 9:40 AM - 10:40 AM **Session 7: Cell and Systems**
Chair: Sid Goyal (University of Toronto)
- 9:40 AM Andrew Rutenberg, Dalhousie University
- 10:00 AM Lisa Manning, Syracuse University
- 10:20 AM Erdal Toprak, University of Texas Southwestern
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10:40 AM **Conference photo**

10:45 AM - 11:15 AM **Coffee Break and Posters**

- 11:15 AM - 12:35 PM **Session 8: Biopolymers**
Chair: Joan-Emma Shea (University of California San Diego)
- 11:15 AM Régis Pomès, Sickkids
- 11:35 AM Gary Slater, University of Ottawa
- 11:55 AM Justin Maccallum, University of Calgary
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12:15 AM Christopher Rowley, Memorial University of Newfoundland

12:15 PM – 2:00 PM **Lunch Break**

2:00 PM - 2:40 PM **Plenary Talk**

Chair: Sarah Rauscher (University of Toronto Mississauga)

Edward Lemke, Johannes Gutenberg University Mainz

2:40 PM - 3:40 PM **Session 9: Single Molecule Biophysics II**

Chair: Josh Milstein (University of Toronto Mississauga)

2:40 PM Matthew Lew, Washington University in St. Louis

3:00 PM Ilya Finkelstein, University of Texas Austin

3:20 PM Jingyi Fei, University of Chicago

3:40 PM - 3:50 PM **Closing Remarks**

4:00 PM - 6:00 PM **Closing Reception**
