

# AGENDA

Day 1 – Tuesday, December 9, 2014

The Banting Institute, 100 College Street

8:00	Registration/Breakfast	Banting 109
8:45	<b>Welcome.</b> Emily Titus, Project Manager and Development Scientist, <i>Centre for Commercialization of Regenerative Medicine</i>	Banting 109
9:00	<p><b>9:00-10:00 Technologies for the generation of induced pluripotent stem cells.</b> Nirupama (Shevde) Pike, Senior Stem Cell Scientist and Global Training Manager, <i>Thermo Fisher Scientific</i></p> <p><b>10:00-10:20 Modeling cystic fibrosis using iPSCs.</b> Amy Wong, Post doctoral fellow, <i>Rossant lab, The Hospital for Sick Children</i></p> <p><b>10:20-10:40 Coffee Break</b></p> <p><b>10:40-11:20 iPSCs for drug screening and cellular therapies.</b> Carter Cliff, Business Development, <i>Cellular Dynamics International</i></p> <p><b>11:20-12:00 Strategies for feeder free reprogramming and directed differentiation.</b> Wing Chang, Stem Cell Scientist, <i>STEMCELL Technologies</i></p>	Banting 109
12:00	Lunch, Sponsored by STEMCELL Technologies	Banting 109
13:00	<p><b>13:10-13:50 Reprogramming reveals multiple stages of pluripotency.</b> Andras Nagy, Senior Investigator, <i>Lunenfeld-Tanenbaum Research Institute, Mount Sinai Hospital</i></p> <p><b>13:50-14:30 Assessing neuronal phenotypes using patient iPSCs.</b> James Ellis, Senior Scientist, <i>Developmental and Stem Cell Biology, The Hospital for Sick Children</i></p> <p><b>14:30-14:50 Coffee Break</b></p> <p><b>14:50-15:40 Modeling human development and disease with pluripotent stem cells.</b> Gordon Keller, Director, <i>McEwen Centre for Regenerative Medicine, University Health Network</i></p>	Banting 109
16:00	<b>Ontario Stem Cell Initiative (OSCI) Talks. Using iPSC derived cardiomyocytes to understand genetic and molecular mechanisms of Left Ventricular Hypertrophy.</b> Ulrich Broeckel, Professor, <i>Human and Molecular Genetics Center, Medical College of Wisconsin</i>	CCBR Red Room
17:00	OSCI Pub Night with Dinner and Networking, Sponsored by CDI	Pogue Mahones 777 Bay St.



Day 2 – Wednesday, December 10, 2014  
 Rosebrugh Building (RS), 164 College Street  
 Lassonde Mining Building (MB), 170 College Street

8:30	Breakfast, Sponsored by Miltenyi Biotec	RS412
9:00	<b>Practical Lecture: Reprogramming workflow, from induction to characterization.</b> Emily Titus, CCRM	RS412
10:00	Overview of Lab Safety, Andrey Shukalyuk, <i>IBBME Teaching Lab</i>	MB325 – IBBME lab
10:20	<b>In the Lab:</b> Reprogramming CD34+ cells using Sendai virus	MB325 – IBBME lab
11:30	<b>Demonstration:</b> Manual selection of iPSC colonies using a stereomicroscope	MB325 – IBBME lab
12:00	Lunch n' Learn with Brendan McIntyre, <i>Miltenyi Biotec</i>	RS412
13:00	<b>In the Lab:</b> Reprogramming fibroblasts using Episomes	MB325 – IBBME lab
14:30	Coffee Break	MB325 – IBBME lab
14:50	<b>In the Lab:</b> Practice manually picking iPSC colonies and manually passaging iPSC lines	MB325 – IBBME lab
16:30	<b>Practical Lecture: Preparing peripheral blood for reprogramming.</b> Elizabeth Csaszar, CCRM	Banting 109
17:00	Pizza Dinner, Networking with CCRM Staff and Tours of CCRM Lab, Sponsored by STEMCELL Technologies and Thermo Fisher Scientific	Banting 109



Day 3 – Thursday, December 11, 2014  
 Rosebrugh Building (RS), 164 College Street  
 Lassonde Mining Building (MB), 170 College Street

8:30	Breakfast	RS412
9:00	<b>In the Lab:</b> Examination of picked colonies and efficiency of GFP transfection in fibroblasts	MB325 – IBBME lab
9:15	<b>In the Lab:</b> Maintenance of pluripotent cells on MEFs using Collagenase IV	MB325 – IBBME lab
10:30	Coffee Break	Outside MB325
10:45	<b>In the Lab:</b> Maintenance of pluripotent cells on Matrigel™ using GCD buffer and ReLeSR™	MB325 – IBBME lab
12:00	Lunch, Sponsored by Thermo Fisher Scientific	RS412
13:00	<b>In the Lab:</b> PSC Differentiation: EB Formation by Scraping and using Aggrewell™	MB325 – IBBME lab
14:00	<b>In the Lab:</b> PSC differentiation to neurons – Neural Rosette Selection and Staining	MB325 – IBBME lab
15:00	Coffee Break	RS412
15:15	Troubleshooting/Q&A	RS412
16:00	Closing Remarks and Departure	RS412

