



	EMBE Duction		MaRS Auditorium, 101 College St., Toronto, ON 8:30 A.M. TO 6:00 P.M. EST
8:30	8:40	Welcome remarks	Leah Cowen – Vice-President, Research and Innovation, and Strategic Initiatives, and Professor, Department of Molecular Genetics, University of Toronto (U of T) Hon. Victor Fedeli, Minister of Economic Development, Job Creation and Trac
8:40	8:50	Opening remarks	Michael Sefton – Scientific Director, Medicine by Design, and University Professor, Department of Chemical Engineering and Applied Chemistry and Institute of Biomedical Engineering, U of T
SESSI	DN 1		
Modera	tor: Cindi I	Morshead – Professor and Chair, Division of	f Anatomy, Department of Surgery, U of T
8:50	9:20	Exploring skin cell heterogeneity at single cell resolution	Fiona Watt – EMBO Director, European Molecular Biology Laboratory
Living	therapy	innovations in neurological diseas	ses
9:20	9:40	Manipulating material transfer in the retina	Molly Shoichet – University Professor, Institute of Biomedical Engineering and Department of Chemical Engineering and Applied Chemistry and Scientific Director, PRiME, U of T
9:40	9:50	Astrocyte to neuron reprogramming for stroke recovery	Jack Hickmott – Postdoctoral Fellow (Morshead Lab), Department of Surgery, U of T
9:50	10:10	Genetic therapies for ultra rare neurogenetic disorders	Dr. James Dowling – Senior Scientist, Genetics and Genome Biology, and Staff Clinician, The Hospital for Sick Children
10:10	10:40	BREAK	
SESSI	DN 2		
Modera	tor: Hai-Li	ng Margaret Cheng – Professor, Institute o	f Biomedical Engineering, U of T
10:40	11:10	Regenerating and rejuvenating aged tissues by targeting a gerozyme	Helen Blau – Donald E. and Delia B. Baxter Foundation Professor and Director, Baxter Laboratory for Stem Cell Biology, Stanford University School of Medicine
Tackli	ng cardi	ac disease with regenerative appr	oaches
11:10	11:30	Heart regeneration with human pluripotent stem cells	Dr. Michael Laflamme – Senior Scientist, McEwen Stem Cell Institute, and Staff Pathologist, UHN Laboratory Medicine Program, UHN
11:30	11:40	Cell-based vascularization for cardiac regeneration post myocardial infarction	Xuetao Sun – Research Associate (Vasconcelos Lab), Toronto General Hospital Research Institute, UHN
11:40	12:00	Algorithm-directed bioprocess optimization for advanced physiological	Craig Simmons – Professor, Institute of Biomedical Engineering and Department of Mechanical and Industrial Engineering, U of T and Scientific Director, Translational Biology and Engineering Program, Ted Rogers Centre
		maturation of iPSC-derived cardiomyocytes	for Heart Research





12:05	1:30	LUNCH AND POSTER PRESENTATIONS				
SESSION 3						
Moderator: Michael May – President and Chief Executive Officer, CCRM						
1:30	2:00	Stem cell science and the genesis of new therapeutic strategies for patients	Derrick Rossi – President and CEO, Convelo Therapeutics and Co-founder of Moderna Therapeutics			
SPECIAL ANNOUNCEMENT						
2:00	2:15	Remarks to include special guests Hon. Sylvia Jones , Deputy Premier and Minister of Health, and Hon. Mark Holland , Federal Minister of Health				
Panel Discussion: Driving discovery to impact in regenerative medicine: the role of innovative partnerships						
2:15	3:00	Helen Blau – Donald E. and Delia B. Baxter Foundation Professor and Director, Baxter Laboratory for Stem Cell Biology, Stanford University School of Medicine				
		Derrick Rossi – President and CEO, Convelo Therapeutics and Co-founder of Moderna Therapeutics				
		Fiona Watt – EMBO Director, European Molecular Biology Laboratory				
		Peter Zandstra – Director and Professor, School of Biomedical Engineering and Michael Smith Labs, University of British Columbia and Co-Founder ExCellThera and Notch Therapeutics				
3:00	3:25	BREAK				
SESSION 4						
Moderator: Dana Philpott – Associate Chair, Research, and Professor, Department of Immunology, U of T						
3:25	3:55	Engineering stem cell development and differentiation	Peter Zandstra – Director and Professor, School of Biomedical Engineering and Michael Smith Labs, University of British Columbia and Co-Founder ExCellThera and Notch Therapeutics			
Novel strategies for immunomodulation						
3:55	4:15	New insights into IL-10-producing ILC2s and their applications in cell therapies	Sarah Crome — Scientist, Toronto General Hospital Research Institute and Ajmera Transplant Centre, UHN			
4:15	4:25	In vitro generation of human CD4 T lineage cells from stem cells	Julius Landas – PhD Candidate (Zúñiga-Pflücker Lab), Department of Immunology, U of T			
4:25	4:45	Why different is good: immunomodulation through heteroatomic tuning of ionizable lipids	Omar Khan – Assistant Professor, Institute of Biomedical Engineering and Department of Immunology, U of T			
4:45	4:55	CLOSING REMARKS & POSTER AWARDS				
4:55	6:00	RECEPTION AND NETWORKING				
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