

6TH

ANNUAL SYMPOSIUM

A Systems Approach to Regenerative Medicine



DAY 1: DEC. 9

9:00 A.M. TO 1:30 P.M. EST – VIRTUAL

OPENING REMARKS

09:00	09:10	Welcome remarks	Christine Allen – Associate Vice-President and Vice-Provost, Strategic Initiatives, and Professor, Leslie Dan Faculty of Pharmacy, University of Toronto (U of T)
09:10	09:20	Opening remarks	Michael Sefton – Executive Director, Medicine by Design, and University Professor, Department of Chemical Engineering & Applied Chemistry and Institute of Biomedical Engineering, U of T

SESSION 1: Deciphering cell-cell communication

Moderators: Dr. Myron Cybulsky, Senior Scientist, and Sonya MacParland, Scientist, Toronto General Hospital Research Institute (TGHRI) University Health Network (UHN).

09:20	09:50	Tissue homeostasis and inflammation	Ruslan Medzhitov – Professor, Yale School of Medicine, Yale University
09:50	10:10	Transcriptomic trajectories display statistical signatures of cell-fate bifurcations	Sidhartha Goyal – Associate Professor, Department of Physics, U of T
10:10	10:20	Transcriptional signatures of cell-cell interactions are dependent on cellular context	Brendan Innes – PhD Candidate, Donnelly Centre for Cellular and Biomolecular Research, U of T
10:20	10:40	Investigating hypertranscription in stem/progenitor cells with single cell resolution	Miguel Ramalho-Santos – Senior Investigator, Lunenfeld-Tanenbaum Research Institute, Sinai Health System

10:40 10:55 **BREAK**

SESSION 2: Interconnected organs-on-chips

Moderator: Sara Nunes Vasconcelos – Scientist, TGHRI, UHN

10:55	11:25	Deconstructing the patient with systems biology, and reconstructing her with organs-on-chips	Linda G. Griffith – Professor, Department of Biological Engineering and Mechanical Engineering, Massachusetts Institute of Technology (MIT)
11:25	11:45	From viruses to therapeutic exosomes-breaking new ground for organs-on-a-chip	Milica Radisic – Professor, Department of Chemical Engineering and Applied Chemistry and Institute of Biomedical Engineering, U of T
11:45	11:55	A 3D in vitro disease model to study obesity-associated adipocyte dysfunction and hypoxia	Vera Pieters – PhD Candidate, Institute of Biomedical Engineering, U of T
11:55	12:15	Modeling human development and disease using pluripotent stem cells	Amy Wong – Scientist, Developmental & Stem Cell Biology, The Hospital for Sick Children
12:15	12:25	Medicine by Design updates	Allison Brown – Director, Strategy and Translation, Medicine by Design

12:25 1:30 **POSTER SESSION**

DAY 2: DEC. 10

10:00 A.M. TO 12:00 P.M. EST – VIRTUAL

OPENING REMARKS

10:00	10:05	Opening remarks	Michael Sefton – Executive Director, Medicine by Design, U of T
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SESSION 3: Strengthening Our Bioinnovation Ecosystem

Moderator: Shiri Breznitz – Associate Professor, Munk School of Global Affairs, U of T

10:05	10:35	Lessons learned from COVID-19	David R. Walt – Professor, Wyss Institute, Harvard University
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PANEL DISCUSSION

10:40	11:50	<ul style="list-style-type: none">• Catherine Beaudry – Director, Partnership for the Organization of Innovation and New Technologies (4POINTO), & Professor, Polytechnique Montreal• Michael May – President & Chief Executive Officer, CCRM• Beate Sander – Director & Scientist, Toronto Health Economics and Technology Assessment Collaborative (THETA), UHN• David R. Walt – Professor, Wyss Institute, Harvard University
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11:50	12:00	CLOSING REMARKS & POSTER AWARDS	Michael Sefton – Executive Director, Medicine by Design, U of T
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Thank you to our poster prize sponsors

