

4TH

ANNUAL SYMPOSIUM

Technology Advancing Biological Insights and Driving Innovation



MEDICINE
by DESIGN

MORNING

08:00 08:30 REGISTRATION & BREAKFAST

08:30	08:40	Welcome remarks	Dr. Vivek Goel – Vice-President, Research and Innovation, and Strategic Initiatives, U of T
08:40	08:50	Opening remarks	Michael Sefton – Executive Director, Medicine by Design, U of T

SESSION 1: Controlling stem cell fate and tissue formation

Moderator: Michael Garton – Assistant Professor, Faculty of Applied Science & Engineering, U of T

08:50	09:30	Microengineered systems to recapitulate intestinal architecture and function	Nancy Allbritton – Professor of Bioengineering, University of Washington
09:30	09:50	Identifying and modulating differentiation bottlenecks	Shana Kelley – Professor, Leslie Dan Faculty of Pharmacy, U of T
09:50	10:10	Next-generation organoid models of human brain development and disease	Jeff Wrana – Senior Investigator, Sinai Health System

10:10 10:40 REFRESHMENT BREAK

SESSION 2: Novel regenerative medicine approaches to disease treatment

Moderator: Leo Chou – Assistant Professor, Faculty of Applied Science & Engineering, U of T

10:40	11:20	Drug selection for the enhancement of liver cell and gene therapy	Dr. Markus Grompe – Professor, Oregon Health & Science University
11:20	11:40	Novel cell and tissue therapies to treat liver failure	Gordon Keller – Senior Scientist, University Health Network
11:40	12:00	Gene therapies to promote neuroregeneration and enhance neuroplasticity	Maryam Faiz – Assistant Professor, Faculty of Medicine, U of T

12:00 13:00 LUNCH

AFTERNOON

PANEL DISCUSSION

Moderator: Michael May – President and Chief Executive Officer, CCRM

13:00	14:00	<p>From research to impact: How to move regenerative medicine technologies from discovery to innovation</p> <ul style="list-style-type: none"> • How can you get started on a path toward commercialization? • How long should you incubate an idea in the lab? • What opportunities exist for Medicine by Design trainees in the Toronto innovation ecosystem? 	<p>Dr. Jane Batt – Respiriologist and Scientist, St. Michael's Hospital, and Associate Professor, Faculty of Medicine, U of T</p> <p>Dawn Bell – Chief Scientific Officer and Vice-President, Medical Affairs, Novartis Canada and Associate, Creative Destruction Lab</p> <p>Cynthia Lavoie – Managing Director, AllosteRx Capital</p> <p>Parimal Nathwani – Vice-President, Commercialization, Toronto Innovation Acceleration Partners</p> <p>Phil Vanek – General Manager, Cell Therapy Growth Strategy, GE Healthcare</p>
14:00	14:30	REFRESHMENT BREAK	

SESSION 3: Overcoming translational barriers

Moderator: Sarah Crome – Scientist, University Health Network

14:30	15:10	GMP production of pluripotent stem cell-derived therapeutics: The good, the bad & the ugly	Joseph Gold – Senior Director of Manufacturing, Center for Biomedicine & Genetics, City of Hope
15:10	15:30	Overcoming barriers to cardiac regeneration using pluripotent stem cells	Dr. Michael Laflamme – Senior Scientist and Staff Pathologist, University Health Network
15:30	15:50	Modelling stem cell niches to understand and enhance endogenous repair	Freda Miller – Senior Scientist, The Hospital for Sick Children
15:50	16:00	Closing remarks & poster awards	Michael Sefton – Executive Director, Medicine by Design, U of T
16:00	17:30	POSTER SESSION & NETWORKING RECEPTION	

Poster prize sponsors:



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