Medicine by Design Mini-Symposium

From Single Cells to Tissues: Next-Generation Models of Human Diseases

Tuesday, November 1, 2022
Red Room, Donnelly Centre for Cellular and Biomolecular Research, 160 College Street, University of Toronto.

Virtual Broadcast via Zoom
https://utoronto.zoom.us/j/83715848938
Virtual ID: 837 1584 8938
Virtual Password: generatio

PI Speakers: 5 min Intro (Wrana/Angers) + 25 min Talk + 5 min Questions = 35 min total

Trainees: 5 min Intro (Wrana/Angers) + 10 min Talk + 5 min Questions = 20 min total

Time (EST)	Session Title	Speaker
10 - 1010AM	Welcome & Introduction to Symposium	Jeff Wrana - Lunenfeld-Tanenbaum Research Institute & Stephane Angers- University of Toronto
	Complex Tissue Models/Organogenesis & Vascularization	
1010 - 1045AM	Organogenesis: From Embryology to Human Stem Cells	Aaron Zorn - Cinncinati Children's Hospital
1045 - 1120AM	Cell-Based Vascularization in Regenerative Medicine	Sara Vasconcelos – University of Toronto
1120 - 1200PM	Dana: Generating Cerebral Organoids to Investigate Mitochondrial Dysfunction in Brain Diseases; Andy: Making Dopaminergic Neurons with Designer Wnt Agonists for Parkinson's Disease	Trainee Talk - Dana El Soufi El Sabbagh (Andreazza Lab)/ Andy Yang (Angers Lab)
1200 - 1235PM	Generating Human Artery and Vein Cells from Pluripotent Stem Cells to Study Biosafety Level 4 Viruses	Kyle Loh – Stanford University

1235 - 130PM	**Lunch Break (Lunch will be provided)**	
130 - 205PM	**TBA**	**Josef Penninger – University of British Columbia**
205 - 225PM	**Characterizing the Heterogeneity of Central Nervous System Macrophages Using a Novel Assembly of Hematopoietic Progenitors with Cerebral Organoids on a De Novo Vasculature Platform**	**Trainee Talk - Amin Yarmand (Wrana Lab)**
	Single Cell Biology	
225 - 3PM	**Is Cancer a Wound That Keeps on Healing? A New Perspective on Glioblastoma**	**Gary Bader – University of Toronto**
3 - 335PM	**Uncovering Regeneration Dynamics of the Intestinal Epithelium at Single Cell Resolution**	**Arshad Ayyaz - University of Calgary**
335 - 410PM	**Embracing Complexity to Achieve Precision: Multilayer Cell Fate Control in Development and Cancer**	**Hong Han - McMaster University**
410 - 430PM	**Capture and Analysis of Circulating Tumor-Reactive Lymphocytes for Adoptive Cell Therapy**	**Trainee Talk - Daniel Wang (Kelley Lab)**
End of Symposium	**Wrap-Up**	**Jeff Wrana - Lunenfeld-Tanenbaum Research Institute & Stephane Angers- University of Toronto**
Time: 6pm	**Dinner at Terroni on Adelaide** **57 Adelaide St. East** **Toronto, ON M5C 1K6** **Tel: 416.203.3093**	**Invited Speakers & members of the Cycle 2 MbD Project Team**