

## CIRTN-R2FIC National Meeting 2023 Schedule of Events

Saturday October 28<sup>th</sup> – Monday October 30<sup>th</sup>

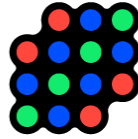
IRCM – Montreal

**B.Y.O.C** – Bring your own cup! To help us reduce single-use waste at the meeting, we ask that attendees bring their own water bottle and/or coffee mug to help cut back on disposable items.

### Saturday October 28, 2023

Time	Event	Location
4:00pm – 5:00pm	<b>Check-In &amp; Presentation Set-Up</b> <i>Light appetizers served during check-in</i>	IRCM Lecture Hall
5:00pm – 5:15pm	<b>Welcome &amp; Opening Remarks</b> <i>Patrick MacDonald, Christine Doucette</i>	IRCM Lecture Hall
5:15pm – 5:25pm	<b>Scientific Session 1: Wait, What?! There's More to Life than the Beta Cell??!</b>  Session Chair: <b>Nicole Krentz, University of British Columbia</b>  <b>Cassie Locatelli (Mulvihill Lab) ★</b> <i>Ketogenic Diet Intervention Elevates Incretins and Impairs Glucagon in Obese Mice</i>	IRCM Lecture Hall
5:25pm – 5:35pm	<b>Ishnoor Singh (Wheeler Lab) ★</b> <i>Connecting Specific Central GLP-1 Receptors Functionally with Glucose Homeostasis and Energy Balance</i>	
5:35pm – 5:45pm	<b>Jane Velghe (Verchere Lab) ★</b> <i>Transcriptional Identification of Human Islet-Resident Immune Cells</i>	
5:45pm – 5:55pm	<b>Clara Goubault (Poitout Lab) ★</b> <i>Langerhans Islets Transplantation in the Eye to Promote Neuronal Regeneration during Glaucoma.</i>	
5:55pm – 6:05pm	<b>Liam Hall (Johnson Lab) ★</b> <i>Metabolic Consequences of Exercise Cessation</i>	
	<b>Session continues on next page</b>	

★ = Presenter is a participant in the NSERC CREATE Training Program

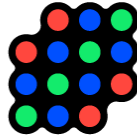


6:05pm – 6:15pm	<b>Xiong Liu (MacDonald Lab) ★</b> <i>Functional Characterization of TMEM55A on <math>\alpha/\beta</math> Cell Exocytosis</i>	
<b>6:15pm – 7:00pm</b>	<b>Mentorship Award Lecture</b> <i>Recipient: Erin Mulvihill</i>	IRCM Lecture Hall
7:00pm – 11:00pm	<b>Pub Night</b>	Bar Clebard 4557 St. Denis

**Sunday October 29<sup>th</sup>, 2023**

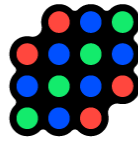
Time	Event	Location
<b>7:30am – 8:00am</b>	Breakfast & Presentation Set-Up	IRCM atrium/lobby
	<b><u>Scientific Session 2: The Metabolic Life and Death of the Beta Cell</u></b>	IRCM Lecture Hall
8:00am – 8:30am	PI Overview Talk and Session Chair: <b>Dan Luciani, University of British Columbia</b>	
8:30am – 8:40am	<b>Amanda Schukarucha Gomes (MacDonald Lab)</b> <i>Glycine Receptor Activity in <math>\beta</math> Cells Is Downregulated in Type 2 Diabetes and After High Glucose Culture</i>	
8:40am – 8:50am	<b>Elisa Molstad (Ferdaoussi Lab)</b> <i>Role of Ferroptosis and Mitochondrial Turnover in Glucocorticoids-Induced <math>\beta</math> Cell Failure</i>	
8:50am – 9:00am	<b>Kevin Guo (Ferron Lab)</b> <i>The Role of Endoplasmic Reticulum Gla Protein (ERGP) in Beta-Cell Function and Cellular Calcium Regulation</i>	
9:00am – 9:10am	<b>Lahari Basu (Bruin Lab) ★</b> <i>Cisplatin Impairs <math>\beta</math>-cell Health and Function in Mice</i>	
9:10am – 9:20am	<b>Laure Monteillet (Estall Lab)</b> <i>Knockout of NCK1 in Pancreatic Islets lowers Insulin Secretion in Female Mice.</i>	
9:20am – 9:30am	<b>Priscila Carapeto (Rutter Lab)</b> <i>Exercise Decreases Senescence Markers in Mouse and Human Pancreatic Islets Through AMPK</i>	

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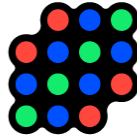
9:30am – 9:40am	<b>Rana Melhem (Rutter Lab)</b> <i>The Impact of the Circulating Biomarker Nogo receptor (NogoR) on Pancreatic Beta Cell Survival</i>	
9:40am – 9:50am	<b>Zuraya Elisa Angeles Olvera (Poitout Lab) ★</b> <i>Mechanisms of Control of Pancreatic <math>\beta</math>-cell Proliferation by Nutrients</i>	
9:50am – 10:00am	<b>Yufeng Wang (Rocheleau Lab) ★</b> <i>Insulin Secretion On-a-chip (InsC-chip) to Measure the Dynamics of Secretion and Metabolism from Individual Islets</i>	
<b>10:00am-10:30am</b>	Morning Coffee Break	IRCM atrium/lobby
	<b><u>Scientific Session 3: Novel approaches for T1D treatment</u></b>	IRCM Lecture Hall
10:30am – 11:00am	PI Overview Talk and Session Chair: <b>Yassi Aghazadeh, University of Montreal/IRCM</b>	
11:00am – 11:10am	<b>Amanda Oakie (Nostro Lab) ★</b> <i>Examining Notch Signaling to Improve Human Stem Cell-Derived Pancreatic Cell Yield</i>	
11:10am – 11:20am	<b>Ekaterina Filatov (Lynn Lab) ★</b> <i>Generating Human Stem Cell-Derived <math>\beta</math>-cells that Attract T Regulatory Cells</i>	
11:20am – 11:30am	<b>Haiyang Huang (Nostro Lab)</b> <i>Investigating the Role of Angiotensin II in HPSC-Directed Pancreatic Endocrine Differentiation</i>	
11:30am – 11:40am	<b>Saumadrita Kar (Verchere Lab) ★</b> <i>Transplantation of Pramlintide-Expressing Stem Cell-Derived Beta Cells to Mitigate Amyloid Associated Islet Transplant Failure</i>	
11:40am – 11:50am	<b>Hui Huang (Buteau Lab) ★</b> <i>A Novel Small-Molecule Activator of Lyn Kinase for The Treatment of Type 1 Diabetes</i>	

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11:50am – 12:00pm	<b>Jasmine Pipella (Thompson Lab)</b> <i>Exploring the Impact of Anti-CD3 Immunotherapy on Beta Cell Stress in Type 1 Diabetes</i>	
12:00pm – 12:10pm	<b>Siyi He (Lim Lab) ★</b> <i>Development of a BRET-Based High-Throughput Screening Approach to Discover Anti-Type 1 Diabetes Compounds from Previously-Approved Drugs</i>	
12:10pm – 12:20pm	<b>Vriti Bhagat (Verchere Lab)</b> <i>Utilizing AAV8-Ins1-Cre Mediated Gene Deletion to Investigate Prohormone Processing Deficiencies in Non-Obese Diabetic Mice</i>	
<b>12:20pm-1:30pm</b>	Lunch	IRCM atrium/lobby
<b>1:30pm – 2:30pm</b>	<b>Career Development Workshop 1:</b> <b><i>Integrating Patient and Stakeholder Perspectives into Basic Science Research</i></b>  <i>Panelists:</i> <b>Linxi Mytkolli, Diabetes Action Canada</b> <b>Marie-Anne Fillion</b>	IRCM Lecture Hall
<b>2:30pm – 3:15pm:</b>	<b>Career Development Workshop 2:</b> <b><i>Regulatory Aspects of Cell Product Development</i></b>  <b>Gayle Piat, Director, Alberta Cell Therapy Manufacturing</b>	IRCM Lecture Hall
<b>3:15pm – 3:30pm</b>	Coffee Break	IRCM atrium/lobby
<b>3:30pm – 5:00pm</b>	<b>Career Development Workshop 3:</b> <b><i>Making the Jump to Industry</i></b> <i>Panel Discussion and Networking Event</i>  <i>Panelists:</i> <b>Jessica Dunne, Scientific Director, T1D Research, Novo Nordisk</b>  <b>Jim Johnson, previous Vice President and Site Head, Novo Nordisk Research Centre Oxford</b>  <b>Eustache Paramithiotis, Vice President, Research &amp; Development, Cell Carta Biosciences</b>	IRCM Lecture Hall/Atrium

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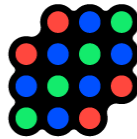


	<p><b>Arturo Mancini</b>, <i>Scientist, Domain Therapeutics North America</i></p> <p><b>Philipa Levesque-Damphousse</b>, <i>Senior Scientist, Research and Development, Nexelis</i></p> <p><b>Kemal Payza</b>, <i>Scientific Advisory Board Member, Nimium Therapeutics</i></p>	
4:15pm – 5:15pm	<p><b>CIRTN-R2FIC Annual General PI Meeting</b> ** to take place concurrently with the networking portion of the “Making the Jump to Industry” workshop</p>	IRCM 255
7:00pm – 11:00pm	Banquet Dinner ( <i>included in registration</i> )	ITHQ 399 rue de Rigaud

**Monday October 30, 2023**

Time	Event	Location
8:00am – 9:00am	Breakfast	IRCM atrium/lobby
	<b>Scientific Session 4A: Polymorphisms, MODYs and Type 2 Diabetes</b>	IRCM Lecture Hall
9:00am – 9:15am	PI Overview Talk and Session Chair: <b>Christine Doucette</b> , <i>University of Manitoba</i>	
9:15am – 9:25am	<b>Wenyue Ye (Wheeler Lab)</b> <i>Characterization of a Common CERS2 Polymorphism and Links to Type 2 Diabetes Development</i>	
9:25am – 9:35am	<b>Maria Galipeau (Estall Lab)</b> <i>The Diabetes-Related Gly482Ser Polymorphism Affects PGC-1<math>\alpha</math> Stability and Glucose Metabolism</i>	
9:35am – 9:45am	<b>Manuel Sebastian (Doucette Lab)</b> <i>Investigating the Effect of the HNF1aG319S Variant on Islet Function After a Prolonged Fast</i>	

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9:45am – 9:55am	<p><b>Shadai Salazar (Rutter Lab)</b> <i>GK-mCardinal Knock-in Mice: A Novel Model of GK Haploinsufficiency</i></p> <p><b>Scientific Session 4B: Beta cell Communication and Islet Structure</b></p>	
9:55am – 10:10am	<p>PI Overview Talk and Session Chair: <b>Guy Rutter, <u>Université de Montréal</u></b></p>	
10:10am – 10:20am	<p><b>Giada Ostinelli (Rutter Lab)</b> <i>Do Highly Connected Beta Cells (i.e. "hubs") Overlap with Epigenetically-Defined "BetaHi" Cells?</i></p>	
10:20am – 10:30am	<p><b>Alexander Garner (Kieffer &amp; Lynn Labs)</b> <i>Investigating How Pancreatic Islet Architecture Impacts Function</i></p>	
10:30am – 10:40am	<p><b>Luis Fernando Delgadillo Silva (Rutter Lab)</b> <i>Differing Stabilities of "Leader" and "Hub" <math>\beta</math>-Cells Within the Pancreatic Islet In vivo</i></p>	
10:40am – 10:50am	<p><b>Nelson Chang (Dhanvantari Lab) ★</b> <i>Islet Paracrine Factors Direct Glucagon to Lysosomes in Pancreatic Alpha Cells</i></p>	
10:50am – 11:00am	<p><b>Laura Reininger (Poitout Lab)</b> <i>The Long-Chain Fatty-Acid Receptor FFA4 Stimulates Insulin Secretion Via Inhibition of Somatostatin Release from the Delta Cell</i></p>	
11:00am – 11:30am	Coffee Break	IRCM atrium/lobby
11:30am - 12:30pm	<p>Keynote Lecture: <b>"New Paradigms for the Treatment of Type 1 Diabetes"</b></p> <p><b>Dr. Carmella Evans-Molina</b> <i>Director, Indiana Diabetes Research Centre Indiana University, School of Medicine</i></p>	IRCM Lecture Hall
12:30pm	Lunch and departure	IRCM atrium/lobby