



cr: Maria Zamfir

New Residence Hall: September 15 & 16

Sponsored by



HEALTHY BRAINS
HEALTHY LIVES



Day 1 - Thursday September 15

Time	Event	Speakers
8:30-9:30	Registration & Light Breakfast	
9:30-9:45	Opening Remarks	Ed Ruthazer, IPN Director
9:45-10:45	Keynote Lecture "Champions of Illusion"	Drs. Susana Martinez-Conde and Stephen Macknik, Professors of Ophthalmology, Neurology, and Physiology & Pharmacology, State University of New York, NYC
10:45-11:00	Coffee break	
11:00-12:30	Symposium A - "Bridging the gap between cellular and circuit function"	Chair: Aparna Suvrathan
11:00	Chair's introduction	Aparna Suvrathan
11:05	"Radial astrocytes in the developing retinotectal system promote escape behaviour through the detection and modulation of neuronal activity"	Nicholas Benfey (Ruthazer Lab)
11:22	"Temporal dissection of Rai1 function reveals brain-derived neurotrophic factor as a potential therapeutic target for Smith-Magenis syndrome."	Serish Javed (Huang Lab)
11:39	"The cell adhesion molecule SDK1 shapes assembly of a retinal circuit that detects localized edges."	Pierre-Luc Rochon (Krishnaswamy Lab)
11:56	"The role of cerebellar synaptic heterogeneity in Purkinje cell function"	Rlya Elizabeth Thomas (Suvrathan Lab)
12:13	"The effects of MDMA on vasopressin neurons and fluid balance"	Joshua Wyrosdic (Bourque Lab)
12:30-2:00	Lunch and poster session I	
2:00-2:45	Awards Ceremony	
2:00-2:05	IPN student achievements 2021-22	Ed Ruthazer
2:05-2:20	IPN Excellence Award "mTORC2-mediated structural plasticity in chronic pain"	Calvin Wong
2:20-2:45	Ann and Richard Sievers Award "Reverse engineering the connectome"	Laura Suarez
2:45-4:15	Symposium B- "The structure, dynamics and function of macroscale brain networks"	Chair: Bratislav Mistic
2:45	Chair's introduction	Bratislav Mistic
2:55	"Multiscale analyses of brain microstructure and function in temporal lobe epilepsy"	Jessica Royer (Bernhardt lab)
3:15	"Mapping cortical morphometric patterns of the psychosis spectrum to symptom dimensions, brain function, and gene expression"	Alyssa Dai (Chakravarty lab)
3:35	"From brain regions to macroscale brain networks: why we should care about brain dynamics"	Giulia Baracchini (Spreng lab)
3:55	"Neuromaps: a software toolbox for contextualizing human brain maps"	Justine Hansen (Mistic lab)
4:15-5:30	Coffee break and poster session II	

Day 2 - Friday September 16

Time	Event	Speakers
8:30-9:00	Registration & Light Breakfast	
9:00-9:30	Student Organizations at IPN	GSAN; BrainReach; NeuroLingo; BrainInfo; Integrate & Fire: Big Questions in Neuroscience
9:30-10:30	Student's Choice Keynote Lecture "Brains, Decisions, and the Law"	Dr. David Ragsdale
10:30-11:00	Opportunities at McGill; Equity, Diversity, Inclusion	Noha Gerges (Mitacs); Krystle Van Hoof (HBHL); IPN EDI committees
11:00-12:30	Symposium C- "Early-life adversity in humans: identifying biological mediators of increased vulnerability to mental illness"	Chair: Naguib Mechawar
11:00	Chair's introduction	Naguib Mechawar
11:05	"Child abuse associated epigenomic and transcriptomic alterations in deep-layer pyramidal neurons of the prefrontal cortex"	Daniel Almeida (Turecki lab)
11:25	"The lasting impact of child abuse on perineuronal nets in the ventromedial prefrontal cortex"	Claudia Belliveau (Mechawar lab)
11:45	"Variations in insulin function causally modulate the effects of early-life adversity on impulsivity in a sex-specific manner"	Aashita Batra (Silveira lab)
12:05	"Peripheral microRNA profiles in adolescence as biomarkers of risk for depression"	Alice Morgunova (Flores lab)
12:30-2:00	Lunch and poster session III	
2:00-2:30	"Open Science in the Making"	Jo Stratton, Gabriel Pelletier, and Henry Denny
2:30-4:00	"Symposium D- "Novel mechanisms and cell models that drive our understanding of brain disorders"	Chairs: Thomas Durcan and Jo Stratton
2:30	Chair's Introduction	Jo Stratton
2:40	"Mirror phenotypes in the SETBP1-neurodevelopmental diseases"	Lilit Antonyan (Ernst Lab)
3:00	"Investigating a dysregulated immune response in the gut underlying early Parkinson's disease symptoms in a prodromal model"	Sherilyn Recinto (Stratton Lab)
3:20	"Development of a system to model rare white matter disorders"	Alexandra Chapleau (Bernard Lab)
3:40	"Rational design of neuroregenerative drugs using high content screening and microfluidic devices"	Tristan Simas (Fournier Lab)
4:00-5:00	Coffee break and poster session IV	
5:00-5:55	Career panel and open discussion	GSAN with invited speakers
5:55	Closing comments and acknowledgements	Ed Ruthazer
7:30 onward	GSAN Cocktail at Thompson House	