



2019 Accelerator Grant Awardees

		Project Title	Investigator(s) ¹	Institution(s) ²
	01	Whole Genome sequencing for stratification in a multisite randomized controlled trial of Arbaclofen vs placebo in Autism Spectrum Disorder	Evdokia Anagnostou (PI) Rob Nicolson Julia Frei	Bloorview Research Institute Western University McMaster University
			Muhammad Ayub Jacob Vorstman Kristiina Tammimies	Queen's University The Hospital for Sick Children Karolinska Institute
()2	Monogenic and Polygenic Etiologies in Adult-onset Focal and Segmental Glomerulosclerosis (FSGS)	Moumita Barua (PI) Andrew Paterson Michelle Hladunewich	University Health Network The Hospital for Sick Children Sunnybrook Research Institute
(03	Whole genome sequencing and genetic architecture of tetralogy of Fallot	Anne Bassett (PI) Daniele Merico Christian Marshall Gregory Costain Robbie Davies Candice Silversides	Centre for Addiction and Mental Health Deep Genomics The Hospital for Sick Children University of Toronto University of Oxford University Health Network
(Whole genome sequencing to discovery variants contributing to extreme adult obesity and its response to bariatric surgery	Satya Dash (PI) Andrew Paterson	University Health Network The Hospital for Sick Children
()5	Whole Genome Sequencing in Childhood Moyamoya	Nomazulu Dlamini (PI) Richard Wintle Cheryl Jaigobin	The Hospital for Sick Children University Health Network
()6	A Genetic Risk Score for Atrial Fibrillation	Michael Gollob (PI) Guillaume Pare	University Health Network McMaster University
()7	Genome-wide cell-free DNA methylation enrichment and sequencing for preeclampsia diagnosis	Michael Hoffman (PI) Samantha Wilson Daniel De Carvalho Howard Berger	University Health Network St. Michael's Hospital
(98	Harnessing multi-omics to deliver innovative diagnostic care for rare genetic diseases in Canada (C4R-SOLVE)	Christian Marshall (PI) Michael Brudno James Dowling Robin Hayeems Kym Boycott	The Hospital for Sick Children Children's Hospital of Eastern Ontario
()9	Development of an Integrative clinical-genomic prediction model in hereditary thoracic aortic disease	Maral Ouzounian (PI) Raymond Kim Eriskay Liston Cedric Manlhiot Bo Wang Roozbeh Manshaei Jillian Murphy Hanna Faghfoury John Okello Miriam Reuter	University Health Network The Hospital for Sick Children Mount Sinai Hospital
	10	Using Whole Genome Sequencing to Understand the Role of Variants of Unknown Significance in Neurodevelopmental Phenotypes in the General Population	Russell Schachar (PI) Jennifer Crosbie Evdokia Anagnostou Christie Burton Paul Arnold	The Hospital for Sick Children Bloorview Research Institute

			Arun Tiwari (PI)	Centre for Addiction and Mental
		Using polygenic risk score to identify psychiatric patients at-risk for cardiovascular and metabolic disorders	Gwyneth Zai	Health
1	.1		Clement Zai	Sunnybrook Research Institute
			Jim Kennedy	
			Margaret Richter	
		Modeling Polygenic Variation to Improve Prediction of Cognitive Outcomes of Pathogenic CNVs	Jacob Vorstman (PI)	The Hospital for Sick Children
			Robbie Davies	University of Toronto
			Christian Marshall	University of Montreal
1	2		Elemi Breetvelt	University of Oxford
1			Anne Bassett	University Medical Center Utrecht
			Lucy Osborne	Centre for Addiction and Mental
			Ania Fiksinski	Health
			Sebastian Jacquemont	
		Defining Epigenomic Variation in Healthy Children in the Context of Whole Genome Sequences	Rosanna Weksberg (PI)	The Hospital for Sick Children
1	2		Ryan Yuen	
1	. 3		Lisa Strug	
			Michael Brudno	
1	1.	Genome-wide detection of repeat expansions	Ryan Yuen (PI)	The Hospital for Sick Children
1	. T		Christopher Pearson	
			France Gagnon (PI)	University of Toronto
		Inradiction causal informed and discovery	Lei Sun (PI)	Mount Sinai Hospital
			Vanessa Goncalves	The Hospital for Sick Children
			Laurent Briollais	Centre for Addiction and Mental
			Linbo Wang	Health
1			Andrew Paterson	
			Shelley Bull	
			Lisa Strug	
			Dehan Kong	
			Qiang Sun	
			Jennifer Brooks	

 $^{^{\}rm 1}$ Bold indicates Lead or Co-Lead Principal Investigator (PI) $^{\rm 2}$ Bold indicates Lead Institution