



2021 Accelerator Grant Awardees

	Project Title	Investigator(s) ¹	Institution(s) ²
01	Surgical genomics: how genetics impact surgical outcomes in Epilepsy	Danielle Andrade (PI) Paula Marques Quratulain Zulfiqar Ali	University Health Network
02	A splicing code resource for the discovery and characterization of neural microexons and associated genetic-based mechanisms underlying neurological disorders	Benjamin Blencowe (PI) Quaid Morris Sabine Cordes	University of Toronto Mount Sinai Hospital Memorial Sloan Kettering Cancer Center
03	Linking genomic data and administrative data to measure health service utilization and costs of genomic sequencing	Yvonne Bombard (PI) Murray Krahn Kevin Thorpe Jordan Lerner-Ellis Raymond Kim	St. Michael's Hospital Mount Sinai Hospital University Health Network
04	Single-nucleus transcriptomics and chromatin accessibility in a mouse model of hypoplastic left heart syndrome	Rajiv Chaturvedi (PI) John Sled Michael Wilson Miriam Reuter	The Hospital for Sick Children
05	Whole Genome Sequencing to understand genetic predisposition for Atypical Femur Fractures (AFFs)	Angela Cheung (PI) Lisa Strug Shinya Ito	University Health Network University of Toronto The Hospital for Sick Children
06	Rapid Genome Sequencing For Diagnosis And Discovery In Severe Infantile Epilepsy	Gregory Costain (PI) Danielle Andrade Vann Chau Robin Hayeems Puneet Jain Christian Marshall Roberto Mendoza-Londono Anna Szuto Ryan Yuen	The Hospital for Sick Children University Health Network
07	Accelerating PRecision mEDicIne for CriTical Care Study (PREDICT)	Claudia Dos Santos (PI) Alexandra Binnie Pedro Castelo Branco Pingzhao Hu Robert Hancock	St. Michael's Hospital William Osler Health System University of Algarve University of Toronto University of Manitoba University of British Columbia University Health Network
08	Combining bait-capture with whole genome sequencing to improving diagnosis of encephalitis of unknown etiology	Robert Kozak (PI) Amadou Sall Gary Kobinger Samira Mubareka Natalie Knox Robyn Lee Andrew McArthur Jessica Forbes Jalees Nasir	Sunnybrook Research Institute Pasteur Senegal Université Laval McMaster University University of Toronto National Microbiology Laboratory

			Christian Marshall (PI)	The Hospital for Sick Children
09		Harnessing multi-omics to deliver innovative diagnostic care for rare genetic diseases in Canada (C4R-SOLVE)	Michael Brudno	University Health Network
			James Dowling	Children's Hospital of Eastern
			Robin Hayeems	Ontario
			Roberto Mendoza	
			Kym Boycott	
			Seema Mital (PI)	The Hospital for Sick Children
			Ryan Yuen	University Health Network
10	.0		Rebekah Jobling	
			Raymond Kim	
			Erwin Oechslin	
			Miguel Ramalho-Santos (PI)	Mount Sinai Hospital
1	human pluripotent stem cells using long-read Nanopore sequencing	Jared Simpson	Ontario Institute for Cancer	
		Nanopore sequencing		Research
		Identifying candidate molecular markers in epilepsy by integrating DNA methylation and whole genome	Rosanna Weksberg (PI)	The Hospital for Sick Children
			Elizabeth Donner	Bloorview Research Institute
			Vann Chau	
1			Gregory Costain	
			Evdokia Anagnostou	
			Miriam Reuter	
		Arun Ramani		
			Andrei Turinsky	
13		Profiling ganatuna and aniganatic status at tandam	Ryan Yuen (PI)	The Hospital for Sick Children
	.3		Jared Simpson	Ontario Institute for Cancer
				Research

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