



2018 Accelerator Grant Awardees

	Project Title	Investigator(s) ¹	Institution(s) ²
01		Evdokia Anagnostou (PI)	Bloorview Research Institute
	Whole Genome sequencing for stratification in clinical trials in Autism Spectrum Disorder	Rob Nicolson	Western University
		Terry Bennet	McMaster University
		Jacob Vorstman	The Hospital for Sick Children
02	Epilepsy Genomics Discovery	Danielle Andrade (PI)	University Health Network
		Ryan Yuen	The Hospital for Sick Children
UZ		Evdokia Anagnostou	Bloorview Research Institute
		Jacob Vorstman	
03	Optimized whole genome sequencing analysis of complex	Anne Bassett (PI)	Centre for Addiction and Mental
		Daniele Merico	Health
		Christian Marshall	The Hospital for Sick Children
		Gregory Costain	University of Toronto
		Ryan Yuen	University Health Network
		Erik Boot	Massachusetts General Hospital
		Elemi Breetvelt	Deep Genomics
		Jacob Vorstman	
		Chelsea Lowther	
		Yvonne Bombard (PI)	St. Michael's Hospital
		Andreas Laupacis	Sinai Health System
		Adena Scheer	University Health Network
	application for the selection of incidental genomic sequencing results	Nancy Baxter	Sunnybrook Research Institute
04		Jordan Lerner-Ellis	Université Laval
		Raymond Kim Christine Elser	British Columbia Cancer Agency
		Andrea Eisen	
		France Legare	
		Intan Schrader	
		Paul Boutros (PI)	Ontario Institute for Cancer
	The Molecular Landscape of Aggressive Localized	Neil Fleshner	Research
05		Michael Fraser	University Health Network
	11 obate dancer in obese rien	Theodorus van der Kwast	oniversity freaten freework
	Rapid Antimicrobial Resistance Prediction Using Point-of- care Sequencing and K-mer Analysis	Bryan Coburn (PI)	University Health Network
		Derek MacFadden	Sunnybrook Research Institute
		Samira Mubareka	Public Health Ontario
06			Sinai Health System
		Roberto Melano	Harvard T H Chan School of Public
		Samir Patel	Health
		Allison McGeer	
		William Hanage	
	A resource of healthy iPSCs derived from the Personal	James Ellis (PI)	The Hospital for Sick Children
07	Genome Project of Canada	Seema Mital	
	denome 1 1 0 jeet 01 danaaa	Binita Kamath	
	brain-wide molecular neuroanatomy	Leon French (PI)	Centre for Addiction and Mental
80		Jason Lerch	Health
		Sean Hill	The Hospital for Sick Children
	In silico anti-microbial prediction through deep learning	Saravanamuttu	Public Health Ontario
		Gnaneshan (PI)	
09		Frances Jamieson	
		Jonathan Gubbay	
		Vanessa Allen	
		Samir Patel	
		George Broukhanski Lennon Li	
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		Sonya MacParland (PI)	University Health Network
	Generation of a high-quality woodchuck draft genome to	Si Lok	The Hospital for Sick Children
10	support clinical use of the woodchuck model of virus-	Gary Bader	University of Toronto
	induced hepatocellular carcinoma	Ian McGilvray	Memorial Univ. of Newfoundland
		Thomas Michalak	
		Christian Marshall (PI)	The Hospital for Sick Children
		Michael Brudno	Children's Hospital of Eastern
11	Harnessing multi-omics to deliver innovative diagnostic	James Dowling	Ontario
	care for rare genetic diseases in Canada (C4R-SOLVE)	Robin Hayeems	
		Kym Boycott	
		Samira Mubareka (PI)	Sunnybrook Research Institute
		Yohannes Berhane	University of Toronto
		Shawn Babiuk	Public Health Agency of Canada
	Influenza virus ecology at the human-animal interface;	Oliver Lung	Canadian Food Inspection Agency
12	predicting cross-species barriers, transmission and	Harold Kloeze	National Centre for Foreign Animal
	emergence	Shamir Mukhi	Disease
			Disease
		David Fisman	
		Robert Kozak	ml v '- 16 0' 1 0' 11
12	INSIGHT into Steroid Response in Childhood Nephrotic	Rulan Parekh (PI)	The Hospital for Sick Children
13	INSIGHT into Steroid Response in Childhood Nephrotic Syndrome	Andrew Paterson	
		York Pei (PI)	University Health Network
1 1	Quantifying Somatic Genomic Variation in Autosomal	Matthew Lanktree	The Hospital for Sick Children
14	Dominant Polycystic Kidney Disease	Andrew Paterson	The Hospital for Sick Children
			Y
		Trevor Pugh (PI)	University Health Network
l	Towards early detection of cancer in high-risk patients	Raymond Kim	Sinai Health System
15	through genome and epigenome profiling of circulating	Jordan Lerner-Ellis	
	tumour DNA	Daniel De Carvalho	
		Scott Bratman	
	Whole genome sequencing of gene-negative hypertrophic cardiomyopathy families	Harry Rakowski (PI)	University Health Network
		Arnon Adler	Sinai Health System
		Mohsen Hosseini	The Hospital for Sick Children
		Rebekah Jobling	Ted Rogers Centre for Heart
16		Raymond Kim	Research
		Eriskay Liston	
		Roozbeh Manshaei	
		Miriam Reuter	
		Josh Silver	
		Adam Shlien (PI)	The Hospital for Sick Children
17	Detecting Clinically Relevant Mutational Signature in	David Malkin	DNAstack
1,	Cancer Genomes by Deep Learning	Marc Fiume	
		True are Che alal : (DD)	The fare well to the state of t
4.0	Advancing Somatic Cancer Clinical Molecular Diagnostics	Tracy Stockley (PI)	University Health Network
		Suzanne Kamel Reid	The Hospital for Sick Children
		Natasha Leighl	
		David Malkin	
	Advancing Somatic Cancer Clinical Molecular Diagnostics		
18	Advancing Somatic Cancer Clinical Molecular Diagnostics with Artificial Intelligence	Andre Schuh	
18	Advancing Somatic Cancer Clinical Molecular Diagnostics with Artificial Intelligence	Adam Shlien	
18	Advancing Somatic Cancer Clinical Molecular Diagnostics with Artificial Intelligence	Adam Shlien Natalie Stickle	
18	Advancing Somatic Cancer Clinical Molecular Diagnostics with Artificial Intelligence	Adam Shlien Natalie Stickle Anita Villani	
18	Advancing Somatic Cancer Clinical Molecular Diagnostics with Artificial Intelligence	Adam Shlien Natalie Stickle	
	Identifying novel dystonia-associated genes through	Adam Shlien Natalie Stickle Anita Villani	The Hospital for Sick Children
	with Artificial intelligence	Adam Shlien Natalie Stickle Anita Villani Carl Virtanen	The Hospital for Sick Children
	Identifying novel dystonia-associated genes through	Adam Shlien Natalie Stickle Anita Villani Carl Virtanen Ryan Yuen (PI)	The Hospital for Sick Children

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