

2017 Accelerator Grant Awardees

	Project Title	Investigator(s)¹	Institution(s)²
01	Epilepsy Genomics Discovery and Treatment	Danielle Andrade (PI) Berge A. Minassian Patrick Cossette Ryan Yuen	University Health Network The Hospital for Sick Children CHUM University of Montreal
02	The Canadian Mitochondrial Network	Ana Andreatza (PI) The Canadian Mitochondrial Network ³	University of Toronto and 7 other institutions ³
03	Proof of principle linkage of Ontario-wide medical data to a multi-system genomic disorder	Anne Bassett (PI) Gregory Costain Candice Silversides Erik Boot Elemi Breetvelt Christian Marshall Simone Vigod Paul Kurdyak	Centre for Addiction and Mental Health The Hospital for Sick Children University Health Network Women's College Hospital
04	Linkage of whole genome sequencing and administrative health data for the study of autism spectrum disorder	Jennifer Brooks (PI) Evdokia Anagnosotou Karen Tu Susan Bronskill Kirk Nylan John McLaughlin	University of Toronto Bloorview Research Institute Institute for Clinical Evaluative Sciences Ontario Brain Institute Public Health Ontario
05	Towards identification of comprehensive mutational landscape in congenital muscular dystrophy	Ronald Cohn (PI) Evgueni Ivakine Dwi Kemaladewi Laura McAdam Lawrence Korngut Anne Rutkowski	The Hospital for Sick Children Bloorview Research Institute University of Calgary Cure CMD
06	A TRIO-Based Approach to Uncovering Putative Loci for Complicated Kawasaki Disease in a Caucasian Population using Whole Genome Sequencing	Andrew Crean (PI) Richard Wintle Ryan Yuen Thomas Kimball Brian McCrindle	University Health Network The Hospital for Sick Children Cincinnati Children's Hospital Medical Center
07	Guiding Empiric Antibiotic Treatment Using Combined Patient Epidemiologic and Pathogen Genomic Predictors	Nick Daneman (PI) Roberto Melano Derek McFadden	Sunnybrook Research Institute Public Health Ontario University of Toronto
08	An Investigation of Clinically Relevant Genomic Variations using Whole Genome Sequencing in Individuals with Cerebral Palsy	Darcy Fehlings (PI) Richard Wintle	Bloorview Research Institute The Hospital for Sick Children
09	Bacillus cereus contamination of human milk banks: Whole-genome sequencing to the rescue	Nahuel Fittipaldi (PI) Sharon Unger Susan Poutanen Deborah O'Connor Debbie Stone Vanessa Allen Sarah Teatero Allison McGeer	Public Health Ontario Sinai Health System The Hospital for Sick Children

10	Discovering Mendelian variants in multiplex families with systemic lupus erythematosus (SLE)	Linda Hiraki (PI) Andrew Paterson Earl Silverman Murray Urowtiz Dafna Gladman Joan Wither Caroline Jefferies	The Hospital for Sick Children University Health Network Cedars-Sinai Medical Center
11	Elucidating the genetic etiologies in non-syndromic congenital hydrocephalus using WGS-based analysis	Elena Kolomietz (PI) Abdul Noor David Chitayat Patrick Shannon George Charames Karen Chong Nicholas Watkins James Stavropoulos Christian Marshall	Sinai Health System The Hospital for Sick Children
12	Genome Sequencing in Adult Patients with Undiagnosed Rare Disease	Jordan Lerner-Ellis (PI) Abdul Noor Chantal Morel Joyce So Hanna Faghfoury Marc Fiume	Sinai Health System University Health Network DNAstack
13	Cloud platform for clinical analysis and interpretation of genomes	Christian Marshall (PI) James Stavropoulos Marc Fiume	The Hospital for Sick Children DNAstack
14	Genetic Factors of CTG/CAG Repeat Contractions in Repeat Instability Families	Christopher Pearson (PI) Jean-Louis Mandel	The Hospital for Sick Children University of Strasbourg
15	Identifying novel virulence factors/clones that independently predict poor outcomes in extended spectrum beta-lactamase-producing Escherichia coli bloodstream infections	Susan Poutanen (PI) Robert Kozak Lee Goneau Donna Lowe Norman Dewhurst Bassem Hamandi Roberto Melano Nahuel Fittipaldi Sophie Mineau	Sinai Health System University of Toronto University Health Network Public Health Ontario Université Laval
16	Whole exome sequencing of sporadic and Hereditary Hemorrhagic Telangiectasia (HHT) associated arteriovenous malformations	Ivan Radovanovic (PI) Marie Faughnan Sergey Nikolaev	University Health Network St. Michael's Hospital University of Geneva
17	Mitochondrial variation, nuclear coordination and the risk for psychiatric illness	Neal Sondheimer (PI) Ana Andreazza Joanna Biernacka Mark Frye Sergio Pereira Lisa Strug Jim Kennedy Vanessa Oliveira	The Hospital for Sick Children University of Toronto Mayo Clinic Centre for Addiction and Mental Health

¹ Bold indicates Lead or Co-Lead Principal Investigator (PI)

² Bold indicates Lead Institution

³ Aaron Schimmer (UHN), Amy Ramsey (UofT), Angus McQuibban (UofT), Benicio Frey (McMaster), Craig Simmons (UofT), Denis Grant (UofT), Flavio Kapczynski (McMaster), Ingrid Tein (SickKids), James Eubanks (UHN), James Kennedy (CAMH), Jason Maynes (SickKids), Ken Evans (InDoc), Mac Burnham (UofT), Mark Pereira (UofT), Mark Tarnopolsky (McMaster), Michael Salter (SickKids), Mohan Babu (URegina), Neal Sondheimer (SickKids), Neil Duggal (Western), Peter Kim (SickKids), Rebecca Laposa (UofT), Romina Mizrahi (CAMH), Shana Kelley (UofT), Steven Chan (UHN), Trevor Young (UofT), Vanessa Goncalves (CAMH)