



2015 Accelerator Grant Awardees

	Project Title	Investigator(s)¹	Institution(s)²
01	Genomic screening as a window on the developing fetus, newborn and beyond	Anne Bassett (PI) David Chitayat Sarah Keating John Kingdom Stephen Lye Candice Silversides Christian Marshall Gregory Costain Dennis Bulman Pranesh Chakraborty	Centre for Addiction and Mental Health Mount Sinai Hospital The Hospital for Sick Children University of Toronto Children's Hospital of Eastern Ontario
02	Pilot study to develop a cost-effective gene panel to detect pancreatic cancer-specific cfDNA methylation suitable for clinical use	Daniel De Carvalho (PI) Rayjean Hung	University Health Network Mount Sinai Hospital
03	Epigenetic Profiling in Severe Sepsis – (EPSIS)	Claudia dos Santos (PI) Jennifer LY Tsang Alexandra Binnie Patricia Liaw Pingzhao Hu Pedro Castelo-Branco	St. Michael's Hospital McMaster University St. Joseph's Health Centre University of Manitoba University of Algarve, Portugal
04	Surgicogenomics in Parkinson's disease: towards an understanding of the genetic contributors of outcome variability after deep brain stimulation surgery	Alfonso Fasano (PI) Ekaterina Rogaeva Naomi Visanji Anthony Lang	University Health Network/ Toronto Western Hospital Tanz Centre for Research in Neurodegenerative Diseases
05	Costs and clinical consequences of pediatric whole genome sequencing: a comparison to conventional genetic tests	Robin Hayeems (PI) Wendy Ungar Stephen Meyn Sarah Bowdin Cheryl Shuman James Stavropoulos Christian Marshall Shinya Ito Iris Cohn Michael Brudno Nasim Monfared	The Hospital for Sick Children
06	Interpreting epigenetic DNA modifications in glioblastoma stem cells	Michael Hoffman (PI) Daniel De Carvalho Peter Dirks	University Health Network The Hospital for Sick Children
07	Translating the discovery of novel neuroblastoma	Meredith Irwin (PI) Adam Shlien David Malkin Stephen Meyn	The Hospital for Sick Children

08	Next Generation Sequencing a Cohort of Unique and Unclassified Lethal Skeletal Dysplasias	Peter Kannu (PI) David Chitayat Karen Chong Christian Marshall	The Hospital for Sick Children Mount Sinai Hospital
09	A genomics-based rapid diagnostic tool for the treatment and repair of donor lungs during ex vivo lung perfusion	Shaf Keshavjee (PI) Mingyao Liu	University Health Network
10	Host-microbe genomic approaches to understanding obesity and diabetes in pregnancy	Stephen Lye (PI) Alan Bocking Kristin Connor Cynthia Maxwell	Mount Sinai Hospital/Lunenfeld-Tanenbaum Research Institute
11	Identifying Genetic Bases of Intractability in Epilepsy	Berge Minassian (PI) Danielle Andrade Peter Cossette	The Hospital for Sick Children University Health Network CHUM - Hôpital Notre-Dame/ Université de Montréal
12	The epigenetic landscape in neurons from 7q11.23 deletion and duplication syndromes	Lucy Osborne (PI) James Ellis Daniel De Carvalho	University of Toronto The Hospital for Sick Children University Health Network
13	An integrated genomic solution for managing bacterial outbreaks and transmission in the health care system	Samir Patel (PI) Vanessa G Allen Nahuel Fittipaldi George Broukhanski John McLaughlin Gary Garber Camille Achonu Jennie Johnstone Allison McGeer	Public Health Ontario Mount Sinai Hospital
14	Development of a multi-centre clinical database to promote standardized reporting of genomic copy number variants for prenatal and postnatal diagnostics	Jim Stavropoulos (PI) Marsha Speevak (PI) Christian Marshall	The Hospital for Sick Children Credit Valley Hospital/Trillium Health Partners
15	Validation of Structural Variants in Medulloblastoma Using Long Read Sequencing Technology	Michael Taylor (PI) John McPherson	The Hospital for Sick Children Ontario Institute for Cancer Research
16	Application of a novel reduced representation bisulfite sequencing technology for the epigenetic study of autism	Rosanna Weksberg (PI) Ryan Yuen Sanaa Choufani Evdokia Anagnostou	The Hospital for Sick Children Bloorview Research Institute
17	Investigation of Genetic Alterations and Drug Sensitivities in Undifferentiated Pleomorphic Sarcomas and Corresponding Clinical Characteristics	Jay Wunder (PI) Irene Andrulis Adam Shlien	Mount Sinai Hospital Lunenfeld-Tanenbaum Research Institute The Hospital for Sick Children

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

² Bold indicates Lead Institution