



**2014 Accelerator Grant Awardees (May 2014)**

	<b>Project Title</b>	<b>Investigator(s)<sup>1</sup></b>	<b>Institution(s)<sup>2</sup></b>
01	<b>Developing a genetic resource using schizophrenia brain tissue</b>	<b>Anne Bassett (PI)</b> Lili Naz-Hazrati Daniele Merico Greg Costain	<b>Centre for Addiction and Mental Health</b> University Health Network The Centre for Applied Genomics
02	<b>An alternative splicing informatics resource for disease mechanism discovery and characterization</b>	<b>Benjamin Blencowe (PI)</b> James Ellis Anne-Claude Gingras Jeffrey Wrana	<b>University of Toronto</b> The Hospital for Sick Children The Lunenfeld-Tanenbaum Research Institute
03	<b>Public Genomics: Examining public values, uptake and use of genome sequencing</b>	<b>Yvonne Bombard (PI)</b> Ahmed Bayoumi Jill Davies Michael Szego Mark Robson Kenneth Offit Kasmintan Schrader Emily Glogowski Jada Hamilton	<b>St. Michael's Hospital</b> Medcan Clinic St. Joseph's Health Centre Memorial Sloan Kettering Cancer Center
04	<b>Whole Exome Sequencing in the NICU – Developing a rapid, specific and sensitive pipeline for the diagnosis of genetic disease in the newborn</b>	<b>Ronald Cohn (PI)</b> Sarah Bowdin Aideen Moore Hilary Whyte Melanie Bedford Shaheen Doctor	<b>The Hospital for Sick Children</b> North York General Hospital
05	<b>Gene discovery for malignant hyperthermia susceptibility</b>	<b>James Dowling (PI)</b> Sheila Riazzi	<b>The Hospital for Sick Children</b> Toronto General Hospital
06	<b>iPS cells with known Personal Genome Project sequences: a resource of healthy cell controls for disease modeling and genome editing</b>	<b>James Ellis (PI)</b> Seema Mital Lucy Osborne Ben Blencowe Andras Nagy	<b>The Hospital for Sick Children</b> University of Toronto Mount Sinai Hospital

07	<b>Using the splicing code to analyze the genetic determinants of disease</b>	<b>Brendan Frey (PI)</b>	<b>University of Toronto</b>
08	<b>Targeting the genetic basis of Leber Congenital Amaurosis: a proof-of-principle for an improved genetic diagnosis strategy of retinal dystrophies</b>	<b>Elise Heon (PI)</b> Michael Wilson	<b>The Hospital for Sick Children</b>
09	<b>Population and Phenotypic Advancements for large scale Global Genomic-Epidemiological Studies (PAGES)</b>	<b>Prabhat Jha (PI)</b> Rajesh Dikshit	<b>St. Michael's Hospital</b> Tata Memorial Centre, Mumbai, India
10	<b>Development of hybrid modeling approaches for identifying multi-component targeted therapies</b>	<b>Igor Jurisica (PI)</b> Ming-Sound Tsao Igor Stagljar	<b>Princess Margaret Cancer Centre/UHN</b> University of Toronto
11	<b>The clinical implementation of exome-sequencing to improve the scope and quality of genetic testing</b>	<b>Jordan Lerner-Ellis (PI)</b> <b>Jim Stavropoulos (PI)</b> Melissa Carter Chantal F Morel Hanna Faghfoury Peter Ray Adam Shlien	<b>Mount Sinai Hospital</b> <b>The Hospital for Sick Children</b>
12	<b>Discovery of Novel Targets and Development of Treatments for Complement-Mediated Disease</b>	<b>Christoph Licht (PI)</b> Daniel Cattran Katerina Pavenski Peter Ray	<b>The Hospital for Sick Children</b> Toronto General Hospital St. Michael's Hospital
13	<b>Early Detection of Lung Cancer Using Next Generation Sequencing Technology</b>	<b>Geoffrey Liu (PI)</b> <b>Wei Xu (PI)</b> Rayjean Hung Pingzhao Hu	<b>Princess Margaret Cancer Centre/UHN</b> Lunenfeld-Tanenbaum Research Institute University of Manitoba
14	<b>Gene expression profiling in critically ill adults at risk of nosocomial infections: The effects of lactoferrin on inflammatory pathways</b>	<b>David Maslove (PI)</b> John Marshall John Muscedere	<b>St. Michael's Hospital</b> Queen's University
15	<b>Ascertaining the genetic etiologies of stillbirth via whole exome sequencing</b>	<b>Stephen Meyn (PI)</b> James Stavropoulos David Chitayat Karen Chong Patrick Shannon Sarah Keating Elena Kolomietz Georges Maire	<b>The Hospital for Sick Children</b> Mount Sinai Hospital

16	<b>Identification of genes involved in epilepsy and epilepsy pharmacoresistance</b>	<b>Berge Minassian (PI)</b> Saadet Mahmutoglu Danielle Andrade	<b>The Hospital for Sick Children</b> Toronto Western Hospital
17	<b>Molecular Genetics of Polycystic Liver Disease (PLD)</b>	<b>York Pei (PI)</b> Andrew Paterson	<b>Toronto General Hospital/UHN</b> The Hospital for Sick Children
18	<b>Electronic health record driven recruitment for transcriptome and methylation analysis of adolescent depression</b>	<b>John Strauss (PI)</b> <b>Pamela Wilansky (PI)</b> Vincenzo de Luca Marc Fadel James Kennedy	<b>Centre for Addiction and Mental Health</b> Ontario Shores Centre for Mental Health Sciences
19	<b>Genetic signatures of pediatric cancer predisposition syndromes</b>	<b>Uri Tabori (PI)</b> Stephen Meyn David Malkin Adam Shlien	<b>The Hospital for Sick Children</b>

<sup>1</sup> Bold indicates Lead or Co-Lead Principal Investigator (PI)

<sup>2</sup> Bold indicates Lead Institution