2022 Accelerator Grant Awardees

	Project Title	Investigator(s)[1]	Institution(s)[2]
01	**Identifying rare variants in patients with epilepsy and ataxia using whole genome sequencing**	**Danielle Andrade (PI)** Ryan Yuen Renato Munhoz Helio Teive	**University Health Network** The Hospital for Sick Children Univ Federal do Paraná, Brazil
02	**Mapping genetic networks underlying autism spectrum disorder**	**Brenda Andrews (PI)** Charles Boone Jason Moffat	**University of Toronto**
03	**Developing a practical guide for conducting equitable genomics research with underrepresented and racialized populations**	**Yvonne Bombard (PI)** Aisha Lofters Nav Persaud Melyssa Aronson Aaron Pollett Harriet Feilotter Jordan Lerner-Ellis	**St. Michael's Hospital** Women's College Hospital Mount Sinai Hospital Queen's University
04	**Development of a novel approach for noninvasive prenatal CNV detection by establishing the human placental methylome in early pregnancy**	**Karen Chong (PI)** Yiming Wang Rosanna Weksberg David Chitayat Elena Greenfeld Abdul Noor Trevor Pugh Hansen He Jack Brzezinski Sanaa Choufani Maian Roifman	**Mount Sinai Hospital** The Hospital for Sick Children University Health Network
05	**Building capacity for genome sequencing in under-resourced settings: a global pilot project**	**Gregory Costain (PI)** Ramses Badilla Nadirah Damseh Hanna Faghfoury Robin Hayeems Eriskay Liston Christian Marshall Roberto Mendoza-Londono	**The Hospital for Sick Children** Nat Children Hosp, Costa Rica Al-Makassed Hosp, Jerusalem University Health Network
06	**Uncovering epigenetic regulators of genetic risk loci in osteoarthritis through deep phenotyping**	**Osvaldo Espin-Garcia (PI)** Shabana Amanda Ali Andy Wong	**University of Toronto** Wayne State University University Health Network
07	**Personalized Medicine for Stroke Prevention: Implementing and Evaluating a Home-Delivery Pharmacogenetic Testing Service in Canada to Guide Antiplatelet Medication Selection for Patients with Ischemic Stroke and TIA**	**David Gladstone (PI)** Mark Boulos Phavalan Rajendram Moni Lustig Aaron Goldman Andrew Demchuk Andrew Micieli	**Sunnybrook Research Institute** University of Toronto University of Calgary DNALabs Canada
08	**A chemical genomic map of therapeutic treatment of multi-drug resistant Staphylococcus aureus**	**Justin Nodwell (PI)** Roman Melnyk	**University of Toronto** The Hospital for Sick Children
09	**Whole genome-wide DNA methylation analyses of arteriovenous malformations (AVMs): understanding the methylation profile of AVMs and its relation to both disease and behaviour**	**Ivan Radovanovic (PI)**	**University Health Network**

10	**Whole genome sequencing of granulomatosis with polyangiitis (GPA) families to identify common and rare risk variants and provide more effective diagnostic and therapeutic strategies**	**Katherine Siminovitch (PI)** Christian Pagnoux	**Mount Sinai Hospital**
11	**The utilization of cell-free DNA methylation signatures in cerebrospinal fluid for diagnosis and early detection of progression in glioblastomas and brain metastases**	**Gelareh Zadeh (PI)**	**University Health Network**
12	**Using Long-read Whole-genome Sequencing to Understand Treatment Resistance in Psychiatric Patients**	**Clement Zai (PI)** Arun Tiwari Gwyneth Zai Joyce So Jerry Warsh James Kennedy	**Centre for Addiction and Mental Health** University of California, San Francisco

[1] Bold indicates Lead or Co-Lead Principal Investigator (PI)
[2] Bold indicates Lead Institution