

2024 Accelerator Grant Awardees

	Project Title	Investigator(s) ¹	Institution(s) ²
01	Investigating the biological function of the m6A epitranscriptome using Oxford Nanopore direct RNA sequencing	Ina Anreiter (PI) Jared Simpson Thomas Braukmann	University of Toronto Scarborough Ontario Institute for Cancer Research Public Health Ontario
02	Genetic Determinants of Neurodevelopmental Outcomes in Children Born Very Preterm	Vann Chau (PI) Rhandi Christensen Steven Miller Jessie Guo Tara Paton Yiming Wang Richard Wintle	The Hospital for Sick Children University of British Columbia
03	Unravelling phenotypic heterogeneity in NRXN1 deletion carrier families through long-read sequencing	Louise Gallagher (PI) Thomas Dinneen Brett Trost Jacob Vorstman Elemi Breetvelt Gregory Costain Rosanna Weksberg Evdokia Anagnostou Daniel Felsky Ciara Molloy Lorna Lopez Angela Morgan Thomas Bourgeron Christine Freitag Anders Børglum	Centre for Addiction and Mental Health The Hospital for Sick Children Bloorview Research Institute Trinity College Dublin Maynooth University Murdoch Children's Research Institute Institut Pasteur Goethe University Frankfurt Aarhus University
04	Adapting long-read WGS for Candida spp. genomic epidemiology and surveillance	Robert Kozak (PI) Nicholas Waglechner Xena Li Julianne Kus Conrad Izydorczyk Ramzi Fattouh	Sunnybrook Research Institute Scarborough Health Network Public Health Ontario Sinai Health Unity Health
05	An atlas of human variable number of tandem repeats (VNTRs) and their DNA methylation using long-read sequencing	Lisa Strug (PI) Delnaz Roshandel	University of Toronto The Hospital for Sick Children
06	New Genome Sequencing Technologies and Informatics: Advancing diagnosis for patients with complex ataxias and spastic paraplegias using long read sequencing technologies	Grace Yoon (PI) Lorraine Kalia Christian Marshall Ryan Yuen	The Hospital for Sick Children University Health Network
07	Development of a tool for discovery and characterization of genome-wide tandem repeats from long-read sequencing data	Ryan Yuen (PI) Jared Simpson	The Hospital for Sick Children Ontario Institute for Cancer Research
08	Genome-scale mapping of genetic interactions for essential disease genes and phenotypes in human cells	Jason Moffat (PI) Lea Harrington (Co-PI) Brenda Andrews (Co-PI) Mike Tyers Charlie Boone Anne-Claude Gingras	University of Toronto The Hospital for Sick Children Lunenfeld-Tanenbaum Research Institute

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

² Bold indicates Lead Institution