

2023 Accelerator Grant Awardees

| | Project Title | Investigator(s) ¹ | Institution(s) ² |
|----|---|---|---|
| 01 | Unraveling complex genetic networks causing brain diseases using “regional burden” statistical models | Elemi Breetvelt (PI) Jacob Vorstman Louise Gallagher Peter Szatmari Meng-Chuan Lai Jennifer Crosbie Ryan Yuen James Stavropoulos Gregory Costain | The Hospital for Sick Children Centre for Addiction and Mental Health |
| 02 | A functional genomics approach to investigate the genetic regulation of human-specific neural precursors and their roles in autism | Yun Li (PI) Julien Muffat Jason Moffat Hong Han Benjamin Blencowe | The Hospital for Sick Children University of Toronto McMaster University |
| 03 | Leveraging multi-modal neuroimaging for the discovery of modality-specific genetic interactions for Alzheimer’s disease | Jun Young Park (PI) Daniel Felsky Jessica Gronsbell | University of Toronto Centre for Addiction and Mental Health |
| 04 | Restoring mitophagy in Parkin-deficient cells via induced proximity | Mikko Taipale (PI) Frank Sicheri Daniel Durocher | University of Toronto Mount Sinai Hospital |
| 05 | Statistical multivariate techniques with pairwise regularization penalties and their applications to inferring genome networks | Elena Tuzhilina (PI) Michael Hoffman Lea Harrington Mike Tyers | University of Toronto University Health Network The Hospital for Sick Children |
| 06 | How do GC-rich tandem repeat hexamers influence the human phenome | Frank Wendt (PI) Haissi Cui | University of Toronto Mississauga University of Toronto |
| 07 | Genome-scale mapping of genetic interactions for essential disease genes and phenotypes in human cells | Jason Moffat (PI) Lea Harrington Charlie Boone Brenda Andrews Mike Tyers Anne-Claude Gingras | The Hospital for Sick Children University of Toronto Mount Sinai Hospital |

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

² Bold indicates Lead Institution