<table>
<thead>
<tr>
<th>Project Title</th>
<th>Investigator(s)¹</th>
<th>Institution(s)²</th>
</tr>
</thead>
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| 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 Parana, Brazil |
| Mapping genetic networks underlying autism spectrum disorder                 | Brenda Andrews (PI)  
Charles Boone  
Jason Moffat | University of Toronto                    |
| 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 |
| 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 |
| Building capacity for genome sequencing in under-resourced settings: a global pilot project | Gregory Costain (PI)  
Ramses Badilla  
Nadirah Damseh  
Hanna Faghfouy  
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 |
| 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 |
| 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 Miceli | Sunnybrook Research Institute  
University of Toronto  
University of Calgary  
DNA Labs Canada |
| 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 |
<p>| 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 |</p>
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<td>10</td>
<td>Whole genome sequencing of granulomatosis with polyangiitis (GPA) families to identify common and rare risk variants and provide more effective diagnostic and therapeutic strategies</td>
<td>Katherine Siminovitch (PI) Christian Pagnoux</td>
<td>Mount Sinai Hospital</td>
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<td>11</td>
<td>The utilization of cell-free DNA methylation signatures in cerebrospinal fluid for diagnosis and early detection of progression in glioblastomas and brain metastases</td>
<td>Gelareh Zadeh (PI)</td>
<td>University Health Network</td>
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<td>12</td>
<td>Using Long-read Whole-genome Sequencing to Understand Treatment Resistance in Psychiatric Patients</td>
<td>Clement Zai (PI) Arun Tiwari Gwyneth Zai Joyce So Jerry Warsh James Kennedy</td>
<td>Centre for Addiction and Mental Health University of California, San Francisco</td>
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</tbody>
</table>

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