International Single Cell Neurobiology Meeting

Preliminary Scientific Program:

Morning - Sunday, May 21st	
Scientific Session 1 **Open Science & Infrastructure**	
9:00am-9:45am	**The INs and OUTs of Open Science at McGillU** *Jo Anne Stratton, The Neuro, McGill University* *Corina Nagy, PhD, Douglas Research Centre, McGill University*
10:00am-10:45am	**CELLAR enables comprehensive and interactive cell type annotation** *Jun Ding, PhD, Meakins-Christie Laboratories, McGill University*
11:00am-11:45am	**Making Single Cell Accessible- Open Round Table Discussion** *All participants are invited to share and discuss their Open Science & Open Infrastructure Initiatives and practices with other participants*
Evening- Sunday, May 21st	
Scientific Session 2 **Advanced Technologies I**	
7:00pm-7:45pm	**New technologies for studying cell-cell interactions** *Iain Clark, PhD, UC Berkeley, University of California*
7:55pm-8:40pm	**Single cell probing of defective immunity** *David Langlais, PhD, McGill Genome Centre, McGill University*
8:50pm-9:35pm	**TBD** *Michael McConnell, PhD, Lieber Institute for Brain Development, John Hopkins University*

Morning- Monday, May 22nd	
Scientific Session 3 **Advanced Technologies II**	
9:00am-9:45am	**Scalable methods- Single cell proteomics by mass spectrometry** *Andrew Leduc, PhD Student, Northeastern University*
10:00am-10:45am	**Imaging Mass Cytometry for dementia research** *Johanna Jackson, PhD, Imperial College*
11:00am-11:45am	**Measuring protein turnover in models of Parkinson's Disease** *Jean Francois Trempe, PhD, McIntyre, McGill University*
Evening- Monday, May 22nd	
Scientific Session 4 **Advanced Technologies III**	
7:00pm-7:45pm	**Integrated single-cell multi-omics from the prefrontal cortex reveals sensitive cell types in individuals with depression** *Corina Nagy, PhD, Douglas Research Centre, McGill University*
7:55pm-8:40pm	**Single-cell atlas of human dorsal root ganglia** *Philippe Séguéla, PhD, The Neuro, McGill University*
8:50pm-9:35pm	**Toward a final cell type classification of the mouse dopaminergic system** *Jean Francois Poulin, PhD, The Neuro, McGill University*

Morning- Tuesday, May 23rd	
Scientific Session 5 **Advanced Computational Methods & Big Data (1)**	
9:00am-9:45am	**TBD** *Hamed Shateri Najafabadi, PhD, McGill Genome Centre, McGill University*
10:00am-10:45am	**Single-cell multi-omics data integration with scCross** *Jun Ding, PhD, Meakins-Christie Laboratories, McGill University*
11:00am-11:45am	**Toward single cell sequencing at a cohort levels for identification of subgroup markers and pathways** *Rhalena Thomas, PhD, The Neuro, McGill University*
Evening- Tuesday, May 23rd	
Scientific Session 6 **Advanced Computational Methods & Big Data (2)**	
7:00pm-7:45pm	**From cellular taxonomies to novel therapeutics: New approaches for mining insights from multi-modal single-cell datasets** *Shreejoy Tripathy, PhD, Krembil Centre for Neuroinformatics at CAMH, University of Toronto, Canada*
7:55pm-8:40pm	**Deep embedded topic models in single-cell multiomic data analysis** *Yue Li, PhD, School of Computer Science, McGill University*
8:50pm-9:35pm	**TBD** *Ioannis Ragoussis, PhD, McGill Genome Centre, McGill University*

Morning- Wednesday, May 24th	
Scientific Session 7 **Single Cell Applications in the Brain**	
9:00am-9:45am	**Using Single Cell Technologies to uncover the molecular landscape of alternative barrier cells** *Jo Anne Stratton, PhD, The Neuro, McGill University*
10:00am-10:45am	**Exploring brain tumor origin using single cell technologies** *Theresa Degenhard, PhD Candidate, The Neuro, McGill University*
11:00am-11:45am	**Human adult brain progenitor cells from normal to aggressive** *Javad Nadaf, PhD, The Neuro, McGill University*
Evening- Wednesday, May 24th	
Scientific Session 8 **Single Cell Technology Education**	
7:00pm-7:30pm	**The Single Cell Club: The future of an educational initiative** *David Langlais, PhD, McGill Genome Centre, McGill University*
7:40pm-8:10pm	**Single Cell Education in Neurobiology- McGillU and its potential** *Rhalena Thomas, PhD, The Neuro, McGill University* *Theresa Degenhard, PhD Candidate, The Neuro, McGill University*
8:20pm-8:50pm	**TBD** *Ioannis Ragoussis, PhD, McGill Genome Centre, McGill University*