JOINT MCGILL – ZNZ WORKSHOP

Induced pluripotent stem cell-based modeling in brain disease research

8 DECEMBER 2020

(ALL TIMES MEZ, ZURICH)

14:15-14:30	LOG-IN TIME
14:35-14:45	WELCOME AND INTRODUCTION FRITJOF HELMCHEN (ZNZ) AND GUY ROULEAU (MCGILL)

SESSION 1: IPSC-BASED APPROACHES TO STUDY NEURONAL DYSFUNCTION
CHAIR: EDWARD FON (MCGILL)

14:45-15:00	RHALENA THOMAS (MCGILL) ***A deep learning classifier to distinguish between human iPSC derived cells from Parkinson's Disease Patients and healthy controls***
15:00-15:15	GERHARD SCHRATT (ZNZ) ***Regulatory effects of non-coding RNAs in an iPSC-derived neuron model of human synapse development***
15:15-15:30	THOMAS DURCAN (MCGILL) ***Applying iPSCs into high-content screening modalities***
15:30-15:45	EDNA GRÜNBLATT (ZNZ) ***iPSC and ADHD research***
15:45-16:00	PAUSE

SESSION 2: IPSC-BASED APPROACHES TO STUDY GLIAL DYSFUNCTION
CHAIR: CHRISTIAN TACKENBERG

16:00-16:15	STEFANO STIFANI (MCGILL) ***iPSC-based models of ALS***
16:15-16:30	CHRISTIAN TACKENBERG (ZNZ) ***iPSCs for modelling Alzheimer's and treating stroke***

SESSION 3: IPSC-BASED 3D APPROACHES
CHAIR: THOMAS DURCAN

16:30-16:45	MARIA LACALLE (MCGILL) ***Tissue clearing and advanced 3D imaging of brain organoids***
16:45-17:00	RUXANDRA BACHMAN (ZNZ) ***Modeling neurodevelopmental ciliopathies using iPSC-based neuronal models***
17:00-17:15	SEBASTIAN JESSBERGER (ZNZ) ***Stem cell-derived organoids to study brain development and disease***
17:15-17:25	CLOSING REMARKS
17:30-18:15	OPEN DISCUSSION FRITJOF HELMCHEN (ZURICH) AND GUY ROULEAU (MCGILL) AND SPEAKERS