



Engineering Induced Pluripotent Stem Cells (iPSC) to Model Neurological Diseases Symposium.

May 6, 2024

DRAFT SCHEDULE – SUBJECT TO CHANGE

8:30 – 9:00 AM	Registration
9:00 – 9:15 AM	Welcome & Introduction
9:15 – 9:45 AM	CRISPR engineering iPSCs for the study of genetic neurodegenerative diseases Claire Clelland, UCSF
9:45 – 10:15 AM	Engineering induced pluripotent stem cells (iPSC) to model neurological diseases Clive Svendsen, Cedars-Sinai Medical Center – <i>Virtual Presentation</i>
10:15 – 10:45 AM	Somatic & stem cell bank to study genetic drivers of dementia Celeste Karch, Washington University School of Medicine
10:45 - 11:00 AM	Break
11:00 – 11:30 AM	Organoid optimization/tauopathy modeling Taylor Bertucci, Neural Stem Cell Institute
11:30 – 12:00 PM	Human 3D cortico-motor assembloids to study development and disease Jimena Andersen, Emory University

12:00 – 12:30 PM	Drug screens of human Induced Pluripotent Stem Cell (hiPSC) Derived Neuronal Networks on Multi-Electrode Arrays Anne Bang, Sanford Burnham
12:30 – 1:00 PM	Biobanking of iPSC from Indigenous Africans tot study the role of African ancestry in tauopathies Mahmoud Bukar Maina, University of Sussex – <i>Virtual Presentation</i>
1:00 – 1:30 PM	Lunch Break
1:30 – 2:00 PM	Using iPSCs to investigate the intrinsic efforts of disease-linked genes on microglia function Daryl Bosco, University of Massachusetts Chan Medical School
2:00 – 2:30 PM	Using stem cells to explore the genetics underlying brain disease Kristen Brennand, Yale University School of Medicine
2:30 – 3:00 PM	ESC/iPSCs differentiation to model neurodegenerative diseases Su Chun Zhang, University of Wisconsin-Madison
3:00 – 3:15 PM	Break
3:15 – 3:45 PM	Genome engineering for the intracellular cartography of human cells Manuel Leonetti, Chan Zuckerberg Biohub
3:45 – 4:15 PM	Multi-omic profiling of (iNDI) iPSC-derived astrocytes to study Alzheimer’s risk gene APOE Femke Feringa, VU University Amsterdam
4:15 – 4:45 PM	Stem cell modeling for Huntington’s Disease Leslie Thompson, UC Irvine
4:45 – 5:15 PM	iPSC models of familial Alzheimer’s disease and familial British dementia Selina Wray, University College London
5:15 – 5:45 PM	iPSC microglia “village” xenotransplantation models of AD. Martine Therrien, UC Davis
5:45 – 6:00 PM	Closing remarks