The Jackson Laboratory

Leading the search for tomorrow's cures

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

May 6, 2024

DRAFT SCHEDULE – SUBJECT TO CHANGE

All times listed are Eastern Daylight Time (GMT -4)

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 – *Virtual Presentation*
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	**Genome engineering for the intracellular cartography of human cells** Manuel Leonetti, Chan Zuckerberg Biohub
1:00 – 1:30 PM	**Lunch Break**
1:30 – 2:00 PM	**Using iPSCs to investigate the intrinsic effects 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	**Biobanking of iPSC from Indigenous Africans tot study the role of African ancestry in tauopathies** Mahmoud Bukar Maina, University of Sussex – *Virtual Presentation*
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**