



# OPEN FOR (NEURO)SCIENCE

## Monday, March 8, 2021 (all times Pacific)

8:00-8:10am	Keith Hengen and Tomasz Nowakowski, Next Generation Leaders Chairs <i>Welcome and introduction</i>
8:10-8:25am	Kaitlyn Casimo, Allen Institute <i>Introduction to the Allen Brain Map and preview of tutorials</i>
8:25-9:00am	Bosiljka Tasic, Allen Institute for Brain Science <i>Introduction to the Allen Cell Types Database</i>
9:00-9:20am	Nik Jorstad, Allen Institute for Brain Science <i>Single-nucleus RNA-seq profiling of middle temporal gyrus across the great apes and monkeys</i>
9:20-9:40am	Rohan Gala, Allen Institute for Brain Science <i>Consistent cross-modal identification of cortical neurons with coupled autoencoders</i>
9:40am-10:00am	Rebecca Hodge, Allen Institute for Brain Science <i>Cell type diversity in human cerebral cortex revealed by single nucleus RNA-seq</i>
10:00am-10:10am	Break
10:10-10:30am	Shreejoy Tripathy, University of Toronto <i>Identifying the transcriptomic signatures of cell type-specific electrophysiological heterogeneity using publicly available Patch-seq datasets</i>
10:30-10:50am	Fenna Krienen, Harvard Medical School <i>Innovations in primate brain cell types</i>
10:50am-11:00am	Break
11:00am-12:30pm	Tutorial: Allen Cell Types Database - Transcriptomics tools <b>(separate Zoom link, tutorial pre-registration not required)</b>

## Tuesday, March 9, 2021 (all times Pacific)

8:00-8:05am	Keith Hengen and Tomasz Nowakowski, Next Generation Leaders Chairs <i>Welcome and introduction</i>
8:05-8:40am	Saskia de Vries and Josh Siegle, Allen Institute MindScope Program <i>Introduction to the Allen Brain Observatory: 2-photon and Neuropixels</i>
8:40-9:00am	Michael Buice, Allen Institute MindScope Program <i>Functional computation in the mouse visual cortex</i>
9:00-9:20am	Xiaoxuan Jia, Allen Institute MindScope Program <i>Tracking information flow in mouse visual areas</i>
9:20-9:40am	Peter Ledochowitsch, Allen Institute MindScope Program <i>A tale of two methods: can we reconcile two-photon calcium imaging with extracellular electrophysiology?</i>
9:40am-9:50am	Break
9:50-10:10am	Yaniv Ziv, Weizmann Institute of Science <i>Representational drift in the mouse visual cortex</i>
10:10-10:30am	Joel Zylberberg, York University <i>Learning from unexpected events in the neocortical microcircuit</i>
10:30-10:50am	Claudia Clopath, Imperial College London <i>Modelling plasticity in network</i>
10:50am-11:00am	Break
11:00am-12:30pm	Tutorial: Allen Brain Observatory - 2-photon and Neuropixels <b>(separate Zoom link, tutorial pre-registration not required)</b>

## Wednesday, March 10, 2021 (all times Pacific)

8:00-8:10am	Keith Hengen and Tomasz Nowakowski, Next Generation Leaders Chairs. with Eric Yttri, Incoming Next Generation Leader Co-chair <i>Welcome. introduction, and overview of public programs at the Allen Institute</i>
8:10-8:40am	Lydia Ng, Allen Institute for Brain Science <i>The Allen Mouse Brain Common Coordinate Framework: A 3D reference atlas enabling data integration</i>
8:40-9:00am	Bing Brunton, University of Washington <i>Go with the FLOW: Visualizing spatiotemporal dynamics in optical widefield calcium imaging</i>
9:00am-9:10am	Break
9:10-9:40am	Forrest Collman, Allen Institute for Brain Science <i>Introduction to the MICrONS Explorer</i>
9:40-10:00am	Agnes Bodor, Allen Institute for Brain Science <i>Recognizing neuronal cell types in electron microscopy (EM) datasets</i>
10:00-10:20am	JoAnn Buchanan, Allen Institute for Brain Science <i>How a large scale EM dataset led to novel discovery about glia</i>
10:20-10:40am	Carolyn Ott, Janelia Research Campus <i>Unprecedented views of visual cortex primary cilia from large TEM volumes provide cell-type specific insights</i>
10:40-11:00am	Nick Turner, Princeton University <i>EM circuit reconstruction with functional data and segmented organelles</i>
11:00am-12:30pm	Concurrent tutorials: Common Coordinate Framework (CCF) MICrONS Explorer <b>(separate Zoom links, tutorial pre-registration not required)</b>