

➤ **Sunday November 4th, 13:30 a.m. – 16:30 p.m.**

**SenseLab:
Recent advances in supporting cellular and circuit research in the brain**

Gordon M Shepherd, Tom Morse and Michele Migliore

Yale University

Abstract:

SenseLab is a suite of databases supporting research at the molecular, cellular and circuit level in the nervous system. Live demonstrations will be provided of how to make use of these resources. This will include how to search for integrative motifs of channels and receptors across dendritic compartments of different types of neurons in NeuronDB; how to search over 10,000 olfactory receptors, their ligands and the odor maps they produce; and how to search through, run, and adapt for own use over 300 computational models in ModelDB. New functionality will be presented, including a database to support research on neuronal circuits (CircuitDB), and a database to support research on the molecular and cellular basis underlying the early pathogenicity of Alzheimer's and other neurodegenerative disorders.