



Breakout Session: Data Infrastructure

December 10, 2015, 1:30pm-3:15pm
White Oak A-B Conference Rooms

Summary:

The BRAIN Initiative will lead to the generation of diverse datasets, with distinctive and heterogeneous challenges and opportunities. What are the commonalities among these different types of data, and what principles should guide policies for their coordination and access? What are the needs for the underlying infrastructure (data, computational resources, software, personnel) to support the integration and analysis of these datasets? Talks will be followed by a panel discussion focusing on common issues to be addressed.

Agenda:

1:30-1:50pm Data Needs for BRAIN Initiative Experimental Projects

Overview: *Ivan Soltesz (Stanford University)*

Discussion: *Sri Raghavachari (NSF, moderator), Aude Oliva (MIT), Friedrich Sommer (University of California, Berkeley)*

1:50-2:25pm Data Resources for the BRAIN Initiative

Overview and Discussion: *Jacob Vogelstein (IARPA, moderator)*

Integrated Data Resources for Cell Types

Hongkui Zeng (Allen Institute for Brain Science)

Resources for Cell Morphology Analysis

Giorgio Ascoli (George Mason University)

Resources for Microconnectomics

Randal Burns (Johns Hopkins University)

High Performance Computing for Modeling and Simulations

Amit Majumdar (UCSD)

2:25-2:50pm Leveraging Open Source Software and Data Science Communities for Neuroscience

Overview: *Jeremy Freeman (Janelia Farm Research Campus)*

Discussion: *Joshua Vogelstein (Johns Hopkins University, moderator), Friedrich Sommer (University of California, Berkeley)*

2:50-3:15pm Open Discussion (Full Panel)