



SHORT COURSE 1

Using Single-Cell Genomics to Analyze Neurons, Glia, and Circuits

Organized by: Steven McCarroll, PhD

Friday, November 11, 2016

8:30 a.m. – 6:00 p.m.

Location: San Diego Convention Center

Room: 6B

San Diego, CA

Time	Topic	Speaker
8:00 – 8:30 a.m.	Check-In	
8:30 – 8:40 a.m.	Opening Remarks	Steven McCarroll, PhD <i>Harvard Medical School</i>
8:40 – 9:30 a.m.	Massive single-cell RNA-seq analysis to analyze cellular specialization and evolution in the nervous system	Evan Macosko, MD, PhD <i>Harvard Medical School</i>
9:30 – 10:20 a.m.	Single-cell analysis of interneurons during brain development	Gordon Fishell, PhD <i>New York University</i>
10:20 – 10:50 a.m.	Morning Break	
10:50 – 11:40 a.m.	Single cell analysis of somatic mutation and cell lineage in human nervous system	Christopher Walsh, MD, PhD <i>Children’s Hospital Boston</i>
11:40 – 12:30 a.m.	Combining electrophysiology with single-cell RNA-seq to reveal principles of connectivity	Andreas Tolias, PhD <i>Baylor College of Medicine</i>
12:30 – 1:30 p.m.	Lunch	
1:30 – 2:20 p.m.	A mouse cortical cell taxonomy	Boslika Tasic, PhD <i>Allen Brain Atlas</i>
2:20 – 3:10 p.m.	Single-cell analysis of neuronal differentiation and reprogramming	Alex Pollen, PhD <i>UC San Francisco</i>
3:10 – 4:00 p.m.	Opportunities and directions in single cell analysis	Steven McCarroll, PhD <i>Harvard Medical School</i>
4:00 – 4:15 p.m.	Afternoon Break	

AFTERNOON BREAKOUT SESSIONS | PARTICIPANTS SELECT DISCUSSION GROUPS AT 4:15 AND 5:15 P.M.

Time	Breakout Sessions	Speakers	Room
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SOCIETY for
NEUROSCIENCE

4:15 – 5:00 p.m.	Group 1: Single-cell analyses of development	TBD	31A
	Group 2: Defining cell types in the nervous system: transcriptomics and beyond	TBD	31B
	Group 3: Distinguishing cell types from cell states: experimental approaches	TBD	31C
5:00 – 5:15 p.m.	Afternoon Break		
5:15 – 6:00 p.m.	Repeat sessions above. Select a second discussion group.		

