

Boston Single-Cell Network

SINGLE-CELL GENOMICS WORKSHOP

Day One | 11.29.2016

Current methods of single cell analysis

Day Two | 11.30.2016

Single cell bioinformatics

TUESDAY, NOVEMBER 29, 2016

Current methods of single cell analysis

Harvard University | Sherman-Fairchild, Room 268 | 7 Divinity Avenue | Cambridge, MA

- 8:15-8:45 Registration and *light breakfast (provided)*
- 8:45-9:00 Introduction and welcome | [Lev Silberstein & Peter Kharchenko](#)
- 9:00-10:00 TBD | [Xiaowei Zhuang](#) [Harvard-Dept. of Chemistry]
- 10:00-10:30 TBD | TBA [Harvard-Dept. of Chemistry-Zhuang Lab]
- 10:30-11:00 BREAK
- 11:00-11:30 *From Single-cell Perturbation to Subcellular Analysis by Fluidic Force Microscopy* |
[Orane Guillaume-Gentil](#) [ETH Zurich]
- 11:30-12:00 *Single nuclei RNA-seq in the adult mammalian brain* |
[Naomi Habib](#) [Broad Institute of MIT and Harvard]
- 12:00-12:30 TBA
- 12:30-1:30 LUNCH (provided)
- 1:30-2:00 *Phenotype-driven single cell analysis* | [Lev Silberstein](#) [MGH]
- 1:45-2:15 *Discovery of new human cell population by scRNA seq: From observation to validation* |
[Alexandra-Chloe Villani](#) [MIT]
- 2:15-2:45 TBD | [Md Saiful Islam](#) [Stanford]
- 3:00-3:30 BREAK
- 3:30-4:00 *Mapping cell differentiation hierarchies with high-throughput single-cell transcriptomics* |
[Daniel Wagner](#) [HMS-Klein Lab]
- 4:00-4:30 *Lessons from the single cell core* | [Sarah Boswell](#) [HMS]
- 4:30-5:00 *Seq-Well: A Portable, Low-cost Platform for Single-cell RNA-sequencing of Low-impact Samples* |
[Travis Hughes](#) [MIT-Shalek Lab]

WEDNESDAY, NOVEMBER 30, 2016

Single cell bioinformatics

Harvard Medical School | Countway Library Lahey Rm, 5th Fl | 10 Shattuck Street | Boston, MA

- 8:00-8:50 Registration and *light breakfast (provided)*
- 8:50-9:00 Introduction | [Peter Kharchenko](#) [HMS]
- 9:00-11:00 *Learning the 'metadata' of the cell with single cell genomics* |
[Rahul Satija](#) [NY Genome Institute]
- 11:00-12:00 *Towards progress in batch effects and technical biases in single-cell RNA-Seq data* |
[Stephanie Hicks](#) [DFCI—R. Irizarry Lab]
- 12:00-1:00 LUNCH (provided)
- 1:00-1:30 *Challenges and approaches in analysis of single-cell data* | [Peter Kharchenko](#) [HMS]
- 1:30-5:00 *Analysis of single cell heterogeneity with PAGODA* |

Event co-sponsors:

