## NYQB'17: MAKING USE OF EMERGING TECHNOLOGIES

Cold Spring Harbor Laboratory, Cold Spring Harbor, New York

August 2, 2017

## FINAL PROGRAM

All Sessions are in Grace Auditorium, unless noted otherwise.

Registration 9.00-9.50am	Arrival and Registration (pick-up ID badge at desk)Grace Auditorium				
<u>10.00-11.10am</u>	SESSION 1. Chair, Adam Siepel (Simons Center for Quantitative Biology / CSHL)				
10.00-10.30am	Joel Saltz (Stony Brook U.), "Digital Pathology, FDA Approval and Precision Medicine".				
10.30-10.50am	Xiaoyin Chen (CSHL), "Interrogating the logic of neuronal projections using in situ barcode sequencing".				
10.50-11.10am	Wolfgang Keil (Rockefeller U.), "Quantitative approaches to C. elegans post-embryonic development using long-term high-resolution imaging with microfluidics".				
11.10-11.30am	Morning Coffee break				
11.30a-12.40pm	SESSION 2. Chair, Olga Troyanskaya (Princeton U. and Simons Center for Data Analysis)				
11.30a-12.00pm	Jane Skok (NYU), "Use of Chromosome conformation capture to investigate the Impact of Endogenous Retroviruses on Nuclear Organization in Mammalian Cells".				
12.00-12.20pm	Darach Miller (NYU), "High-throughput Genetics of mRNA Dynamics using FISH, FACS, and Sequencing".				
12.20-12.40pm	Meghana Kshirsagar (MSKCC), "Topic models for inferring transcription factor binding profiles jointly from SELEX and ATAC-seq".				
12.40-1.30pm 1.30-2.30pm	Lunch (vegetarian option available)Blackford Ha Posters SessionNicholls–Biondi Ha				
2.30-3.40pm	SESSION 3. Chair, Neville Sanjana (NYGC and NYU)				
2.30-3.00pm	Itai Yanai (NYU), "Dissecting the embryo with single-cell RNA-Seq".				
3.00-3.20pm	Hussein Mohsen (Yale U.), "Deep Neural Networks for Imputation, Clustering, and Embedding of Single-Cell Data".				
3.20-3.40pm	Davide Risso (WCMC), "A general and flexible method for signal extraction from single-cell RNA-seq data".				
3.40-4.00pm	Afternoon Coffee break				
4.00-5.10pm	SESSION 4. Chair, Alex Krasnitz (Simons Center for Quantitative Biology / CSHL)				
4.00-4.30pm	Yuval Kluger (Yale U.), "Deep Learning Approaches to Remove Technical Sources of Variation in Experimental Single Cell Data and to Classify Cell Subpopulations".				
4.30-4.50pm	Kristina Grigaityte (Simons Center for Quantitative Biology / CSHL), "Comprehensive Sequencing Analysis of High-Throughput Single T Cells in Humans: αβ Chain Pairing and Allelic Inclusion".				
4.50-5.10pm	Shilpa N. Kobren (Princeton U.), "Structure-Informed Approach to Discovering Perturbed Interaction Interfaces in Cancer".				

## **Dinner Reception**

5.30-7.00pm <b>I</b>	Barbecue on the Beach	(vegetarian option available),	Wine & Beer will be served	CSHL Beach
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