

Spatial Profiling to Dissect Cellular Networks Across Diseases

1st Biannual 2023 Symposium Highlighting Cancer Research at Parnassus

May 22, 2023 | HSW-301

9:15 am	Registration and coffee
9:45 am	Alexis Combes, PhD WELCOME
10:00 am	Session 1: Spatial Architecture of Cancer
10:00 am	Kai Kessenbrock, PhD Building a Spatially Resolved Atlas of the Human Breast During Normal Homeostasis and Cancer
10:25 am	Matt Spitzer, PhD CD8 T Cell Responses to Cancer Immunotherapy in Human Lymph Nodes
10:50 am	Karin Pelka, PhD Spatially Organized Immune Hubs in Colon Cancer
11:15 am	John Hickey, PhD Tissue Architecture Driven by Immune Cells
11:40 am	Eric Lubeck, PhD An Overview of Spatial Transcriptomics Technologies, Translational Challenges, and Future Developments
12:05 pm	Lunch
1:00 pm	Session 2: Analytical Methods for Spatial Omics
1:00 pm	Angela Pisco, PhD Computational Biology for Spatial Technologies
1:25 pm	Barbara Engelhardt, PhD Machine Learning Methods for Spatial Genomics Data
1:50 pm	Vivek Ramaswamy, MS Integrating Histology Imaging Data and Spatial Transcriptomics Using Graph Convolutional Network (GCN)
2:15 pm	Break
2:40 pm	Session 3: Spatial Omics Decodes Cellular Network Across Tissues
2:40 pm	Anna Molofsky, MD, PhD Optimizing Spatial Transcriptomics to Study Neuroimmune Communication
3:05 pm	Michael Angelo, MD, PhD Shared Spatial Ontology Across Cancer, Pregnancy, and Tuberculosis
3:30 pm	Michael Kattah, MD, PhD Spatial Multi-Omics to Study Anti-Integrin Therapy in Ulcerative Colitis
3:55 pm	Michael Snyder, PhD Spatial Single Cell Maps of the Human Intestine
4:20 pm	Happy Hour (Nursing Mezzanine)