ABRF Virtual Seminar Series

Single Cell and Spatial Analysis Technologies for Genomics Core Facilities

Wednesday, November 30
2:00 – 3:00 p.m. ET

Complimentary Registration available here

Abstract:

10x Genomics provides single cell, spatial, and in situ technologies that fuel scientific discoveries and drive exponential progress. Uncover molecular insights, dissect cell-type differences, detect novel cell subtypes and biomarkers, define gene regulatory interactions, and decipher spatiotemporal gene expression patterns. You may be familiar with our single cell transcriptome, immune profiling, ATAC/Multiome and Visium spatial transcriptomics technologies, but you may not have heard about the latest innovations. Whether you are a current user or new to 10x Genomics, this seminar will provide an overview of the highly adopted solutions and the latest updates for fresh, fixed and FFPE samples, including a new approach to perform Visium Spatial and Single Cell from the same FFPE block, BEAM (Barcode-enabled Antigen Mapping) for T-cell and B-cell clonotype discovery, and the Xenium *in situ* platform for transcript mapping at true cellular and subcellular resolution.

Topics:

- A brief overview of single cell analysis applications
- BEAM for the Chromium X platform for immunotherapy development

- Chromium Single Cell Fixed RNA Profiling with the Chromium X platform for sample batching, storage, multiplexing for cost reduction and high assay performance
- New enablement for performing single cell profiling using FFPE tissue blocks.
- Visium Spatial transcriptomics for FFPE tissues with Visium Cytassist for samples on standard glass slides
- Xenium *In situ* platform for high resolution transcript mapping down to the subcellular level
- Q&A

Speaker:

Egon Ranghini
Science & Technology Advisor
10X Genomics