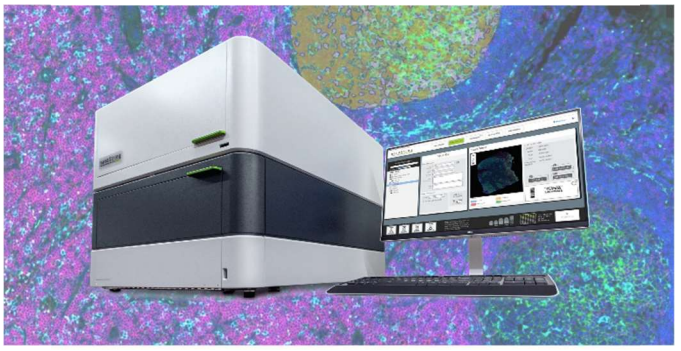
UVA Spatial Biology Core - NanoString Seminar!

1-3PM on Friday, Nov 4th – Pinn Hall, Room 1005

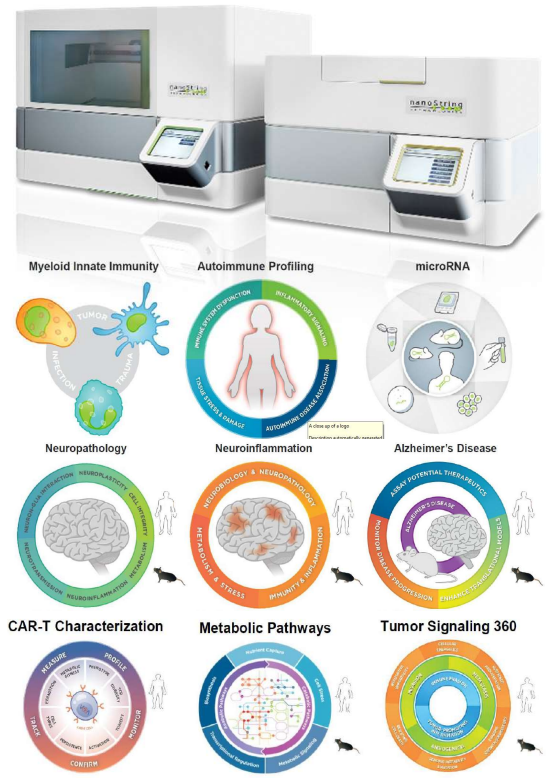
1.5 hour seminar followed by informal Q&A
Catered lunch will be available before seminar

In person or Virtual Option

Researchers are invited to join us for this special presentation detailing bulk gene expression analysis with the nCounter MAX and spatial profiling capabilities with the GeoMx Digital Spatial Profiler (DSP) currently available in the UVA Spatial Genomics Core



NanoString's GeoMx DSP combines the best of **spatial and molecular profiling** technologies by generating a whole tissue image at single cell resolution and digital profiling data for **Whole Transcriptome RNA** or 150+ plex Protein analytes. This unique combination of high-plex, high-throughput spatial profiling enables researchers to rapidly and quantitatively assess the biological implications of the heterogeneity within a variety of tissue samples (FFPE, fresh frozen, TMA, and more).



The NanoString nCounter MAX for **bulk RNA profiling** combines a cost-effective automated solution for multiplex analysis of **800+ targets**. The simple workflow requires just 15 minutes hands-on time and produces **highly reproducible data, requiring no amplification** or technical replicates in ~24 hours. With panels including **Oncology, Immunology, Infectious Disease, Neuroscience, microRNA**, and **Custom** (free bioinformatics design) https://nanostring.com/products/ncounter-assays-panels/

Questions?

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UVA Spatial Biology Core Seminar Agenda

1-3PM on Friday, Nov 4th – Pinn Hall, Room 1005

Virtual option: https://virginia.zoom.us/j/95337856570?pwd=ZEpoT2NvVDdNMGgzTS84cjdHM1h6QT09

12:30-1:00pm - *Lunch catering*

1:00 – 1:10pm *Opening Remarks*
Jay W. Fox, Ph.D., Director of Research Infrastructure at UVA
Professor & Associate Dean of Research - Microbiology, Immunology and Cancer Biology

1:10 – 1:25pm *"New tools in Spatial Multiomics Analysis at UVA"*
Ana de Oliveira, Ph.D., UVA Spatial Biology Core Director

1:25 – 1:55pm *"An Introduction to NanoString bulk and Spatial Profiling platforms: Multiplexed, Direct Digital Expression Profiling of RNA and Proteins"*
Min Mo, Ph.D., Field Applications Scientist, NanoString Technologies

1:55 – 2:15pm *"Periostin+ stromal cells guide lymphovascular invasion by cancer cells"*
Jamie Null, Ph.D. candidate from Dudley Lab, UVA

2:15 – 2:35pm (online presentation) – "*Highly Multiplexed Imaging with ChipCytometry™*"
Marni Romano, BS, Business Development Manager, Canopy Biosciences
Marni.romano@bruker.com

Highly multiplexed spatial biomarker analysis has demonstrated the potential to advance our current understanding of the immune system and its role in cancer – from tumor initiation to metastatic progression. ChipCytometryTM is a novel, highly multiplexed technology that preserves both plex and spatial context to deeply profile immune cell diversity at single-cell resolution. ChipCytometry uses commercially available antibodies and combines iterative immuno-fluorescent staining with high dynamic range imaging to profile dozens of protein biomarkers in a single specimen. Join us to learn how ChipCytometry can be used to identify and quantify immune cell types in FFPE and fresh frozen tissue as well as cell suspensions.