Digital Spatial Profiling - Technology Access Program

Use the Digital Spatial Profiling technology to address your research question through the Technology Access Program (TAP). NanoString's Digital Spatial Profiling (DSP) technology delivers digital counts of biomarker expression levels in precise spatial context, enabling researchers to deepen their understanding of heterogeneity and disease and accelerate the development of next generation targeted therapeutics.

Key Benefits

- Highly multiplexed protein detection

- Minimum sample: protein analysis from a single 5 µM FFPE section

- Morphological context: whole slide 4-color imaging to guide profiling

- Tunable resolution: select phenotypic and/or geometric regions of interest (ROI) with guidance from NanoString's in-house pathologist

- Digital quantitation: up to 6 logs (base 10) dynamic range

- Data analysis: publication ready figures provided plus access to the DSPApp

How does the technology work?

Nanostring's DSP technology combines standard immunofluorescence techniques with digital optical barcoding technology to perform highly multiplexed, spatially resolved profiling experiments. In a single reaction, the DSP technology performs whole slide imaging to capture tissue morphology and select ROI for high plex profiling with oligo-barcoded antibodies. The ability to perform tissue morphology guided profiling experiments increases the likelihood of capturing rare events often missed by typical grind and bind assays.

Digital Spatial Profiling Workflow
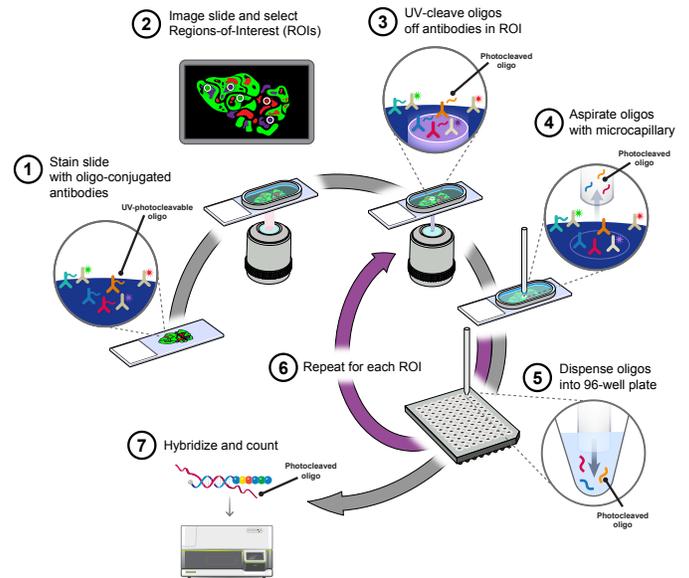
Technology Access Program
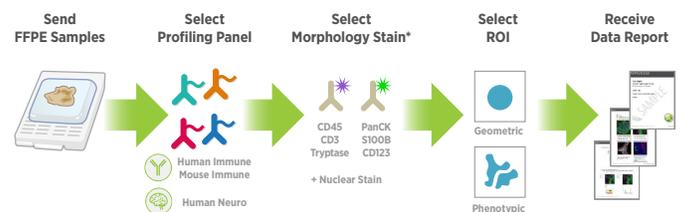
- Send up to 20 FFPE (formalin-fixed, paraffin-embedded) tissue sections

- Select a morphology stain to guide ROI selection for profiling with one of NanoString's high-plex protein profiling panels

- Receive assay report with raw digital data and processed results ready for presentations, grant applications, or publications

To join the program contact us at TAP@nanostring.com