

Product Profile Services

Spatial Transcriptomics Services

Overview

Indivumed Services offers the whole workflow for your Spatial Transcriptomics needs to overcome the lack of morphological information of gene expression data within bulk RNA analysis. We implemented the “Visium Spatial Gene Expression” Solution from 10x Genomics offering:

- Analysis of the total transcriptome in the morphological context with just one tissue section
- High-resolution view of gene expression variability in the tissue of interest
- Combination with our high-quality, low-ischemia time tissue samples from our clinical network

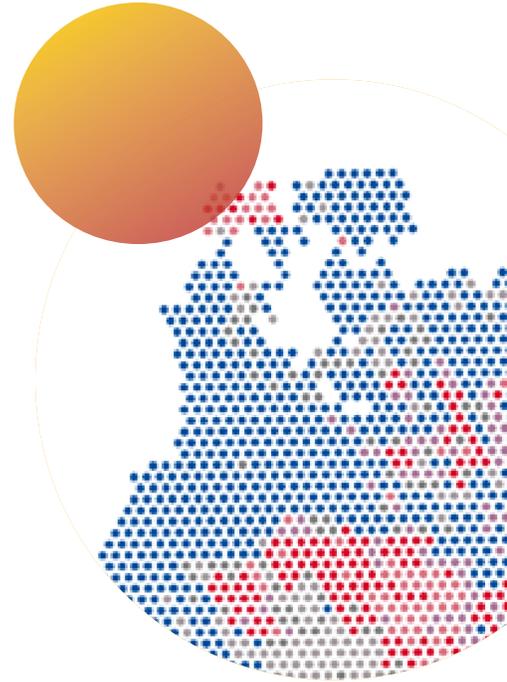
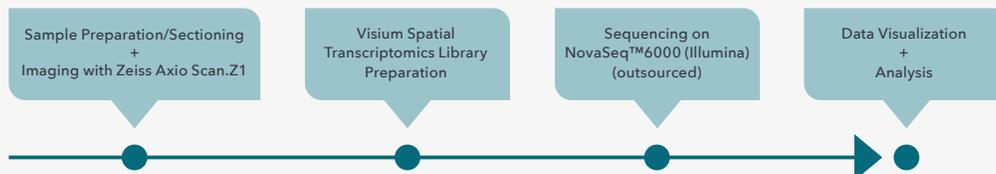
End-to-end solution: Spatial Transcriptomics Service Workflow at Indivumed Services

1. Sample preparation/sectioning of Fresh Frozen (FF) tissue samples; Formalin-fixed paraffin-embedded (FFPE) tissue samples possible on request
2. Visium Spatial Tissue Optimization to determine optimal conditions for each tissue entity and sample type entering the Visium Spatial Gene Expression Workflow
3. Visium Spatial Gene Expression Workflow including sequencing as well as data visualization and analysis

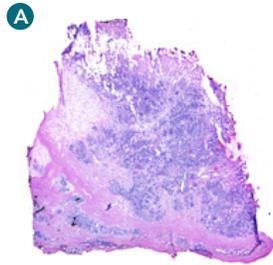
Your Benefits

Our Multi-omics Grade samples enable you to excel in your research and development of personalized medicine along the value chain from target identification to drug discovery, and for biomarker exploration and validation.

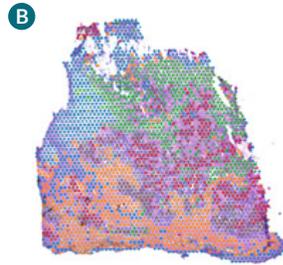
- 10x Genomics Certified Service Provider for Spatial Gene Expression Solution
- Scientific support throughout the entire spatial transcriptomics workflow
- Easy to interpret results
- Get a quick answer on differentiated gene expression
- Reliable and scientifically proven technology
- All data files provided for individual processing
- Save valuable biological material



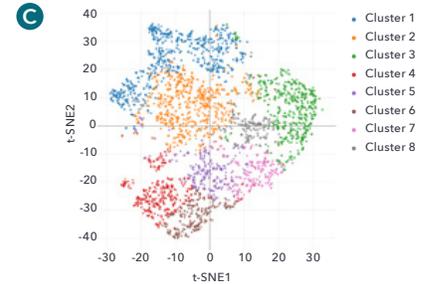
From morphological view to spatially-resolved cluster analysis and target gene expression



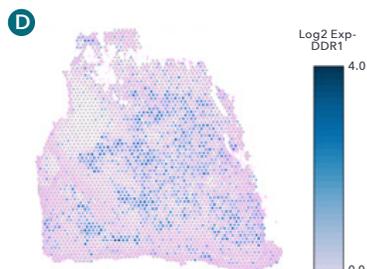
H&E image - morphological view of NSCLC tumor tissue section



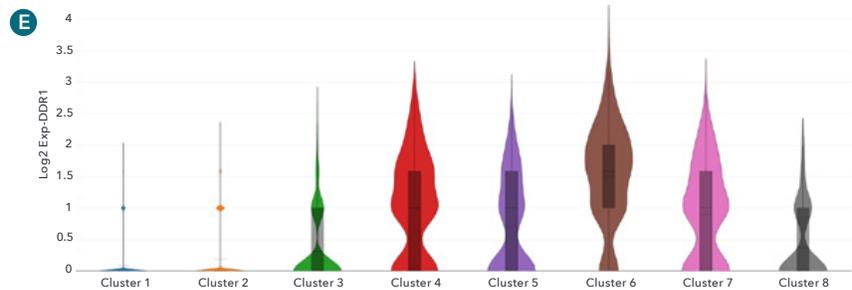
Spatial view - gene expression data displayed as clusters identified by differentially expressed genes



t-SNE projection of identified clusters, t-distributed stochastic neighbor embedding a probabilistic method for visualizing high dimensional data



Spatial view DDR1 (Discoidin Domain Receptor Tyrosine Kinase 1) - gene expression of DDR1 is shown in the spatial context



Violin Plot DDR1 (Discoidin Domain Receptor Tyrosine Kinase 1) - Log2 gene expression of DDR1 within identified clusters is shown

Combined and Complementary Services

- High-quality biospecimens from Indivumed Services's Biobank
- Histopathological evaluation by in-house pathologists
- Immunohistochemistry (IHC) and/or Fluorescent Multiplex IHC
- Laser Capture Microdissection (LCM)
- Combine transcriptomic insights with our multi-omics data from our global cancer data platform

About Indivumed Services

Indivumed Services, a Crown Bioscience Company, is a global contract research organization (CRO) that offers an industry-leading oncology biobank and a range of service platforms to advance oncology and immuno-oncology drug discovery and development.

Holding a unique biobank of clinical specimens, unrivalled in quality and associated clinical history, which currently totals almost one million patient samples, the company partners with extensive clinical network of more than 60 entities in the United States, Europe, and Asia providing direct and controlled access to relevant surgical biospecimens and blood samples.

Further known for their enhanced immunohistochemistry and spatial transcriptomics, Indivumed Services' platforms complement a range of established Crown Bioscience capabilities supporting biomarker discovery.

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