

# Spatial Transcriptomics Services

## Overview

Crown Bioscience offers the entire 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" Solutions from 10x Genomics offering:

- Analysis of the whole transcriptome (probe-based or poly-A mRNA capturing) 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

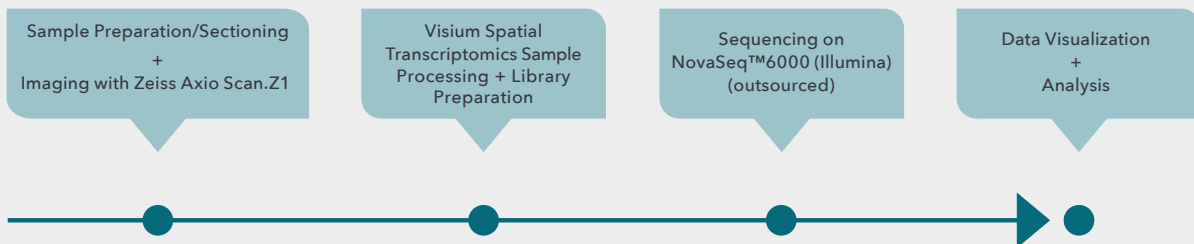
## End-to-end solution: Spatial Transcriptomics Service Workflow

1. Sample preparation/sectioning of fresh frozen (FF) tissue samples and formalin-fixed paraffin-embedded (FFPE) tissue samples
2. Whole transcriptome spatial analysis of tissue via CytAssist or direct placement methods using different available assays, e.g., Visium HD
3. Visium Spatial Gene Expression Workflow including sequencing as well as data visualization and analysis

## Your Benefits

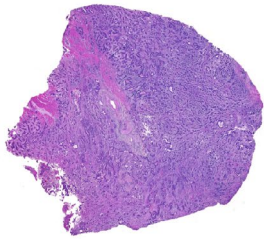
Our Multi-omics Grade biospecimens enable the advancement of your research and development of personalized medicine, from target identification to drug discovery, and for biomarker exploration and validation.

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

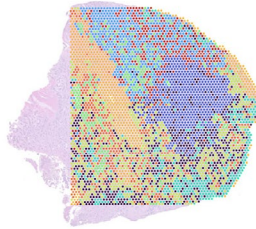


## From morphological view to spatially-resolved cluster analysis and target gene expression

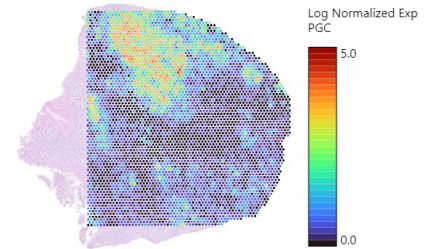
### Stomach Tumor



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

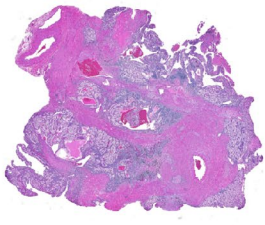


Spatial view - gene expression data displayed as clusters identified by differentially expressed genes

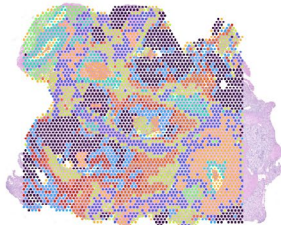


Spatial view PGC (Progastricsin) - gene expression of PGC is shown in the spatial context

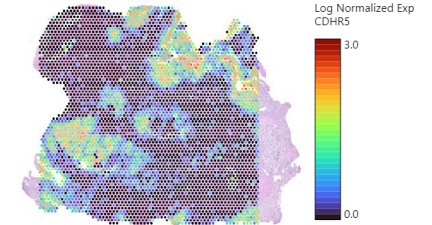
### Kidney Tumor



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



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



Spatial view CDHR5 (Cadherin Related Family Member 5) - gene expression of CDHR5 is shown in the spatial context

### Combined and Complementary Services

- High-quality biospecimens from our unique human cancer tissue and fluids biobank
- Histopathological evaluation by in-house pathologists
- Immunohistochemistry (IHC) and/or Fluorescence Multiplex IHC services
- Single Cell Sequencing (10x Genomics)
- Laser Capture Microdissection (LCM)

## Get in touch



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