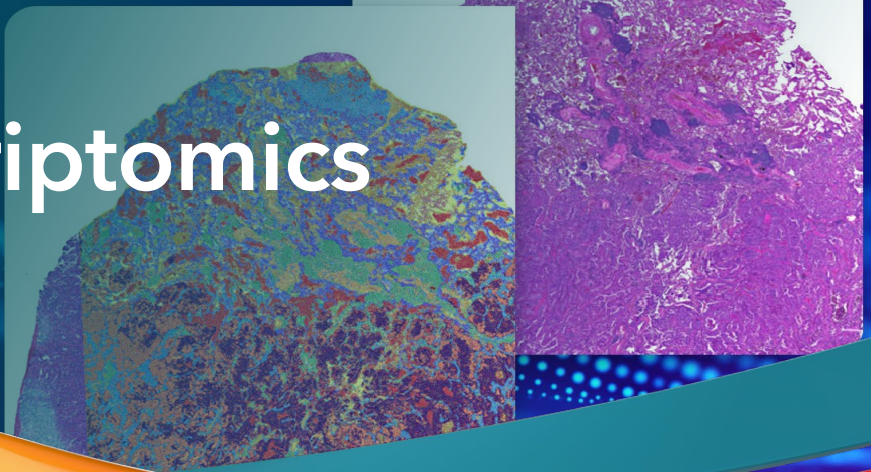


Spatial Transcriptomics Services



Overview

Crown Bioscience Germany 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. Visium HD whole transcriptome spatial analysis of tissue using CytAssist
3. Visium HD 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

10x
GENOMICS**Certified**
Service Provider

Sample Preparation/Sectioning
+
Imaging with Zeiss Axio Scan.Z1

Visium HD Spatial
Transcriptomics Sample
Processing + Library
Preparation

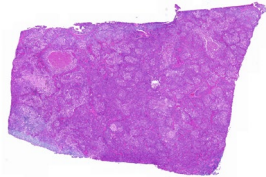
Sequencing on NovaSeq
Instruments (Illumina)
(outsourced)

Data Visualization
+
Analysis

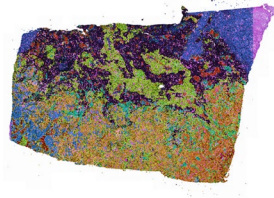


From morphological view to spatially-resolved cluster analysis and target gene expression

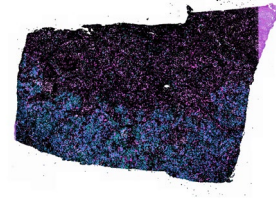
Non-Small Cell Lung Cancer (NSCLC)



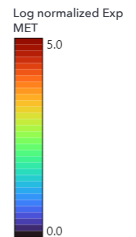
Non-Small-Cell-Lung-Cancer (NSCLC)
tumor tissue sample



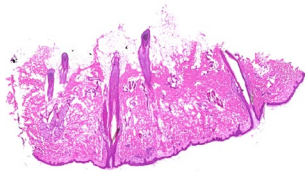
Spatial view - gene expression data
displayed as clusters identified by
differentially expressed genes



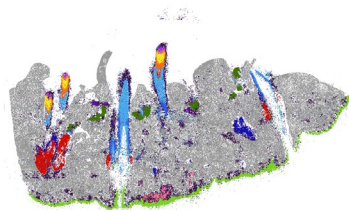
Spatial view MET - gene expression
of the proto-oncogene MET



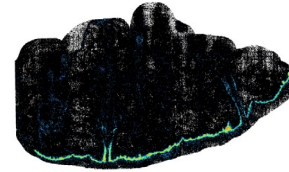
Healthy Human Skin Sample



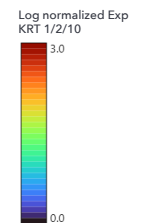
H&E image morphological view of
healthy human skin sample



Spatial view - tissue compartments
using marker based cluster analysis



Spatial view KRT1/2/10 - gene expression
of the epidermal marker pattern consisting
of the genes KRT1, KRT2, and KRT10



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)
- Gene Expression Analysis by PCR methods - quantitative PCR (qPCR) or digital PCR (dPCR)
- Protein Expression by Simple Western Size Analysis (Protein Simple)

Get in touch



Sales

US: US: +1 (301) 228 9739

Germany: +49 40 69 63 572 0

busdev@biospecimenservices.com

www.biospecimenservices.com

