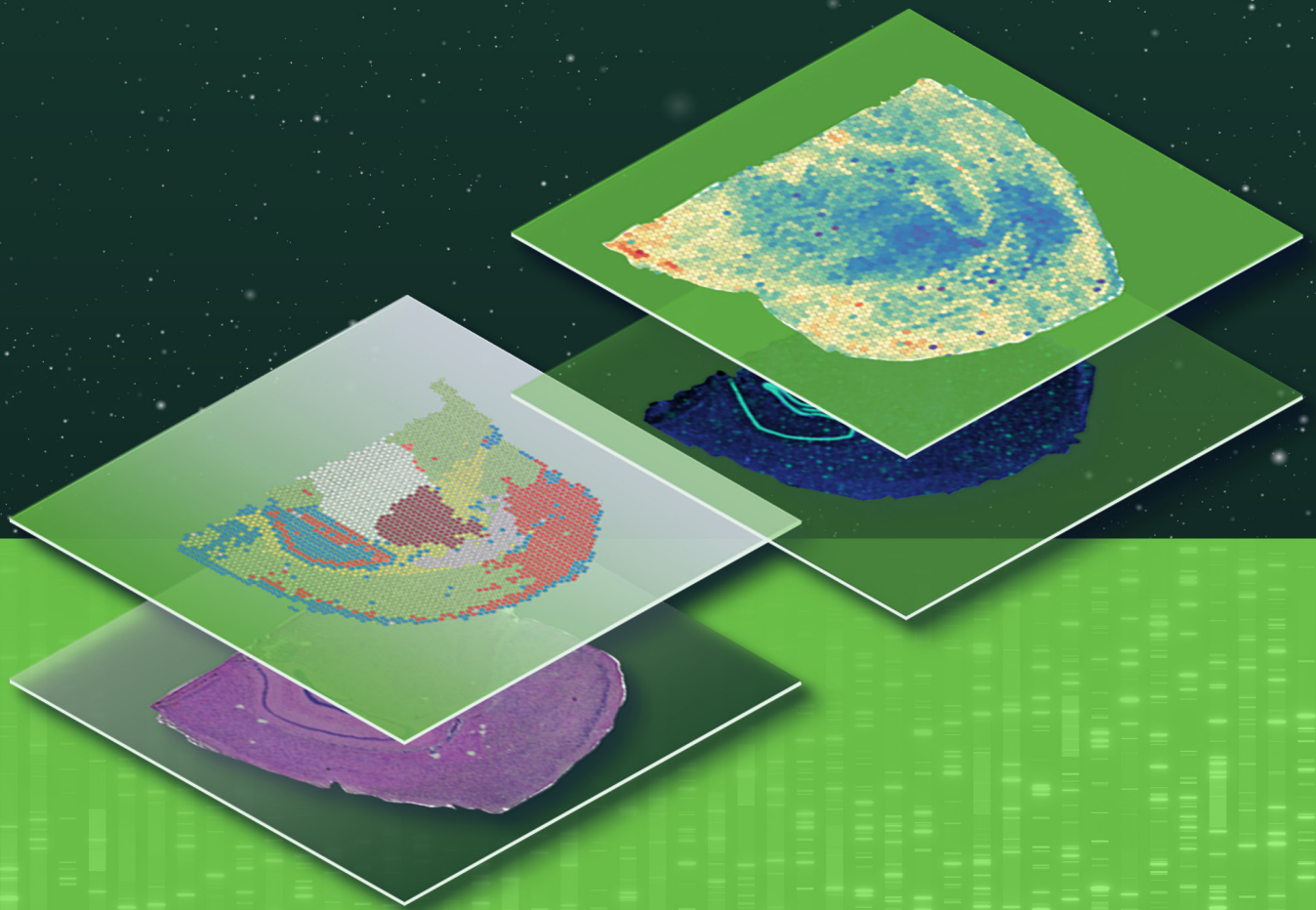




Spatial Transcriptomics with **Signiosbio**

Where gene expression meets precision



A spatial platform for every research question

Spatial transcriptomics enables researchers to study gene expression while preserving tissue architecture. Signios Bio provides end-to-end spatial transcriptomics services using 10x Genomics **Visium CytAssist** and **Xenium** platforms, supporting projects from experimental design through data analysis. Signios Bio provides spatial transcriptomics services using Visium CytAssist and Xenium platforms, enabling researchers to select the technology best suited to their experimental goals.

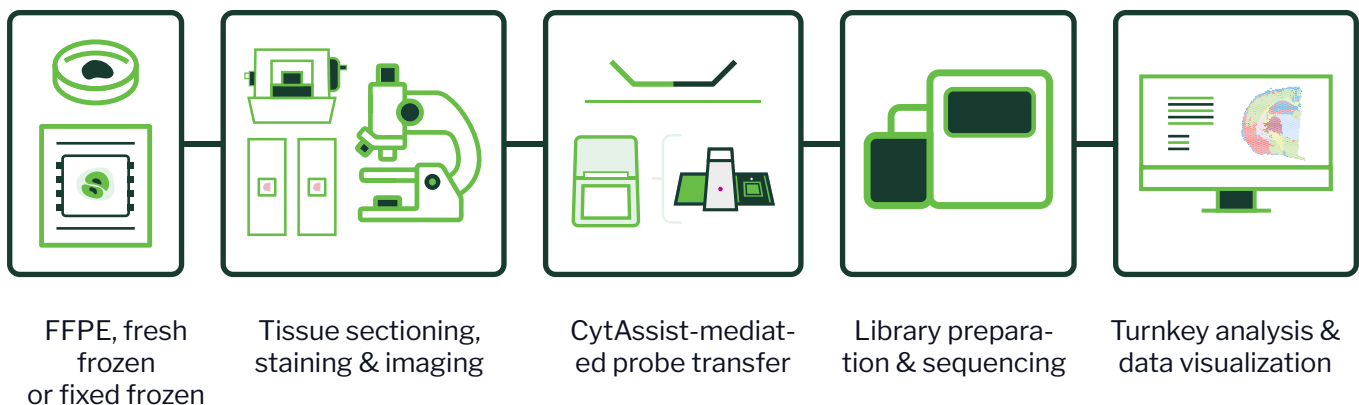


What can you do with spatial transcriptomics?

- Characterize RNA expression within intact tissue environments
- Analyze gene expression across FFPE or fresh-frozen tissue sections
- Identify cell types and spatial tissue organization
- Investigate cell-to-cell interactions within biological systems
- Integrate spatial data with single-cell or bulk transcriptomics

10x Genomics Visium CytAssist services: Unbiased whole-transcriptome discovery

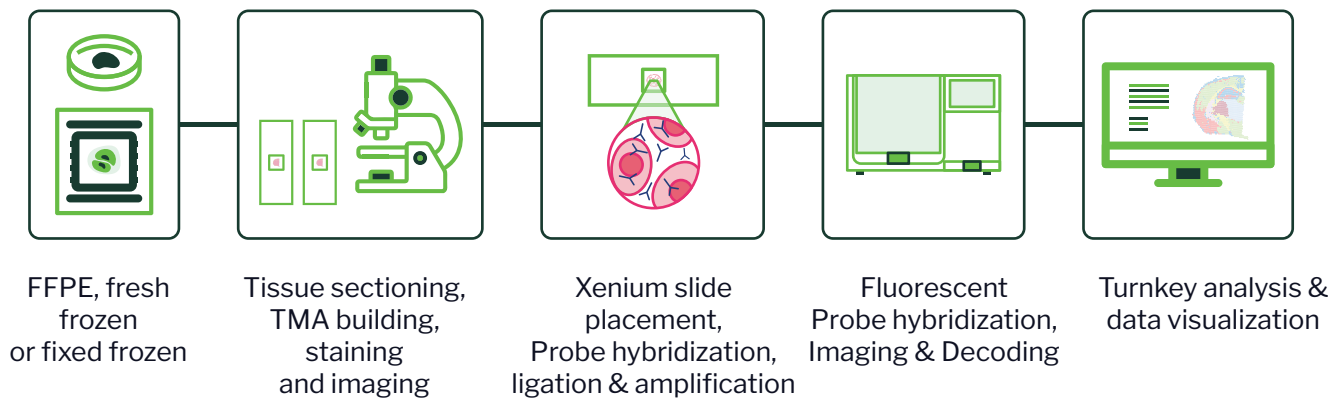
Signios Bio's 10x Genome Visium Spatial Services capture gene expression across tissue sections at a whole-transcriptome scale. Visium CytAssist instrument automates tissue and probe transfer to achieve consistent performance and accurate capture for robust gene detection across FFPE, fresh-frozen, and fixed-frozen tissue.



- Unbiased, whole-transcriptome discovery for novel biology exploration
- Novel isoform detection and comprehensive gene-regulatory mapping
- Broad species applicability, including non-model organisms
- Large-cohort analytical pipelines and retrospective studies
- Detection of novel transcripts using custom probes
- Archival sample flexibility with FFPE tissue sections

Xenium In Situ – Targeted Spatial Transcriptomics at Subcellular Resolution

Signios Bio's 10x Genomics Xenium Services delivers high-plex, imaging-based spatial transcriptomics at subcellular resolution with nanometer precision. Using padlock probe chemistry and rolling circle amplification, Xenium maps hundreds to thousands of RNA targets in situ within individual cells—without tissue dissociation or sequencing. Signios Bio provides full Xenium spatial transcriptomics services, including panel selection consultation, sample processing, instrument runs, and data analysis.



- Reliable low-abundance transcript detection across a range of expression levels
- Direct cell assignment without computational segmentation artifacts
- Xenium Explorer visualization for immediate, on-instrument data exploration
- Multiplexed protein and RNA co-detection on the same tissue section
- Custom and pre-designed gene panels for hypothesis-driven research
- Subcellular resolution for precise localization of transcripts within cells

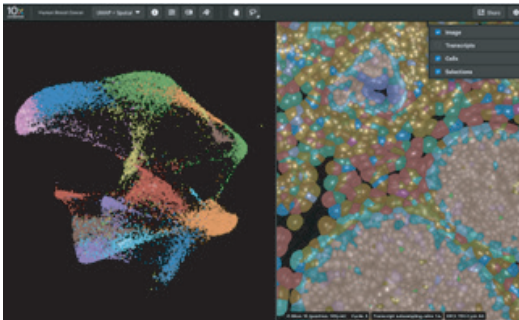
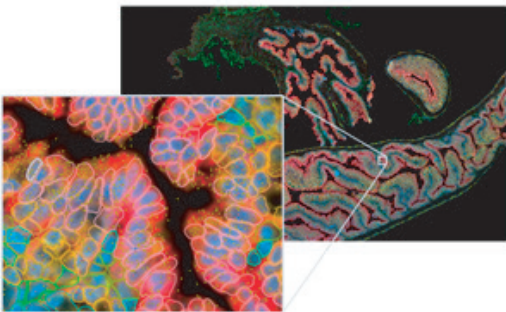
Sample preparation & tissue processing

Success begins with expert sample preparation services. Signios Bio provides comprehensive **tissue processing services** tailored for 10x Genomics spatial services, including **FFPE and fresh-frozen** sectioning, **TMA construction**, and **H&E staining**. Every project undergoes rigorous **RNA quality assessment (DV200 ≥ 30%)** to ensure your tissue quality is optimal and your spatial gene expression data is accurate and reproducible.

- Tissue sectioning for FFPE or fresh-frozen blocks
- H&E staining
- Tissue microarray construction
- Immunofluorescence staining
- RNA quality assessment (sample QC)
- Processing of pre-mounted Visium or Xenium slides

Bioinformatics & data analysis

Signios Bio’s Spatial Bioinformatics & Analysis Services provide comprehensive packages to transform raw spatial data into biological discovery. For Visium Analysis Services, we utilize **10x Genomics Space Ranger** for precise alignment and gene expression mapping, supplemented by custom annotation and neighborhood analysis to streamline interpretation. For Xenium projects, our team delivers high-resolution **Xenium Explorer visualization** and advanced downstream spatial analysis, ensuring you can localize transcripts and identify cellular interactions with absolute confidence.

Visium HD insights	Xenium Prime 5K Insights
• Mature pipelines using 10x Space Ranger and Seurat • Species-independent profiling with HD 3’ slide • Ideal for large tissue cohorts 	• Reliable low-abundance transcript detection • Xenium Explorer visualization • Direct cell assignment without segmentation • Perfect for hypothesis-driven research 

Data Visualization for Deeper Insights — Explore results via our MAnGO interactive portal, featuring publication-ready spatial feature plots, heatmaps, and cluster maps designed for rapid data interpretation. For academic researchers, our analysis services streamline the transition from raw data to high-impact discovery and peer-reviewed publication. For biotech and discovery teams, our analysis services provide the spatial context necessary to validate therapeutic targets, identify predictive biomarkers, and accelerate the path toward clinical action and drug development.

Contact us today for pricing and to begin planning your customized solution.

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