

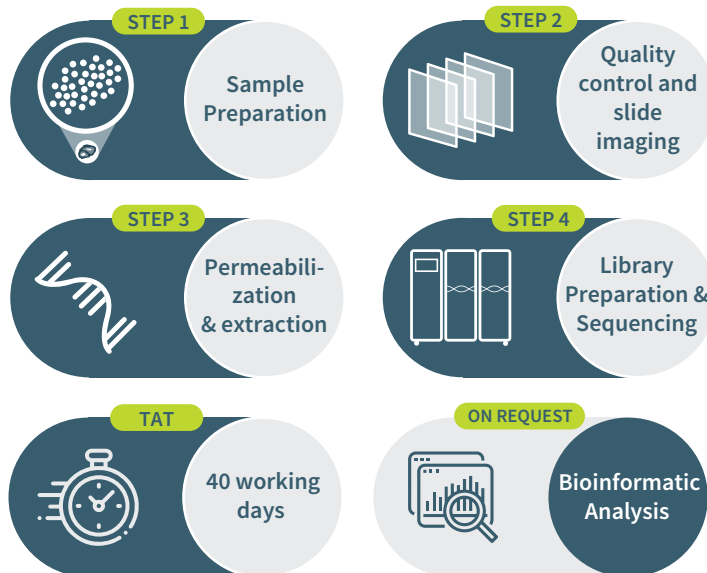
NEGEDIA Spatial Transcriptomics

The **NEGEDIA Spatial Transcriptomics** service enables high-resolution spatial gene expression analysis using fresh frozen tissue and FFPE sections on specialized chip slides. This technology preserves tissue architecture, allowing precise molecular studies.

Offered in partnership with **STOmics**, a leader in spatial multi-omics, this service provides whole-transcriptome, single-cell resolution analysis with Ultra-HD subcellular precision and a 160 cm² field of view.

As a **Certified Service Provider**, NEGEDIA ensures the highest quality standards in spatial transcriptomics solutions for both basic research and clinical applications.

OUR SERVICE INCLUDES



AVAILABLE OPTIONS

STOmics Stereo-seq
FFPE samples
(NGD0200R)

STOmics Stereo-seq
Fresh Frozen samples
(NGD0201R)

STOmics Stereo-seq
Run Only Seq
(NGD0202R)

STARTING MATERIALS

SERVICE CODE

NGD0200R - FFPE

NGD0201R - Fresh Frozen samples

STARTING MATERIAL

Original FFPE block, unsectioned, to ensure optimal control over quality and section preparation

- Fresh frozen tissue embedded in OCT (Optimal Cutting Temperature compound), provided as an unsectioned block.
- The sample must be snap-frozen in liquid nitrogen immediately after collection and stored at -80°C to preserve RNA integrity

QUALITY REQUIREMENTS

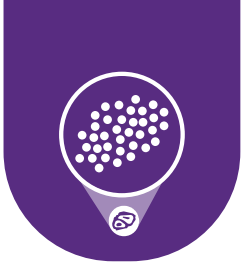
- RIN: Not always reliable due to RNA fragmentation
- DV200: >30% (acceptable), >50% (optimal)
- The block must be well-preserved and free from oxidation.
- Avoid prolonged exposure to light and temperature fluctuations.

- RIN (RNA Integrity Number): >7
- DV200: >70% (percentage of RNA fragments >200 nucleotides)
- The tissue must be embedded in OCT in a sterile and RNase-free environment to prevent contamination.
- Avoid freeze-thaw cycles to maintain sample quality.
- The block should be oriented correctly in the OCT medium to facilitate sectioning.

STORAGE & SHIPPING

- Packaging: Protective material to prevent damage.
- Transport: Room temperature, avoiding humidity and heat.
- Guidelines: Contact our team for specific packaging and delivery instructions before shipment.

- Shipping: Use dry ice (-80°C) to prevent thawing.
- Packaging: Ensure proper insulation to maintain temperature.
- Guidelines: Contact our team for specific packaging and delivery instructions before shipment.



APPLICATION NOTES

The Spatial Transcriptomics service by NEGEDIA offers cutting-edge technology for studying gene expression patterns within intact tissue sections. The high-resolution spatial data enables researchers to explore cellular microenvironments, tissue architecture, and molecular interactions with unprecedented precision.

Key benefits include:

- High-throughput spatial gene expression profiling
- Preserving tissue morphology while analyzing molecular signatures
- Compatibility with multiple tissue types
- Unbiased transcriptomic analysis with single-molecule resolution

DISCOVER OUR INTERACTIVE REPORT



SCAN THE **QR CODE**

BIOINFORMATICS ANALYSIS

STANDARD BIOINFORMATIC ANALYSIS (INCLUDED IN NGD00200R NGD00201R - NGD00202R SERVICE)



- Demultiplex e QC
- Data output:
 - FastQ files for raw sequencing data

ADVANCED BIOINFORMATIC ANALYSIS (ON REQUESTS)



- Data preprocessing and quality control
- Spatial gene expression quantification
- Dimensional reduction and clustering analysis
- Integration with reference transcriptomic datasets
- Data output:
 - Quality control report for sequencing and spatial transcriptomic data
 - Spatial gene expression maps for visualization of transcript distribution

NEGEDIA® is a cutting-edge NGS laboratory built on the Telethon Foundation's 30 years of expertise in rare genetic disease research. We are committed to making genomics accessible across the Life Sciences, providing high-precision sequencing and bioinformatics solutions for both research and clinical applications.

➤ **Clinical Services:** Supporting laboratories, clinics, and hospitals in leveraging NGS for clinical research and diagnostic advancements.

➤ **Research Services:** Assisting research institutes and universities at every stage, from experimental planning to advanced bioinformatics analysis.

For more information or to discuss a project, contact us at info@negedia.com

GENOMICS AND BEYOND

UNI EN ISO 9001:2015

