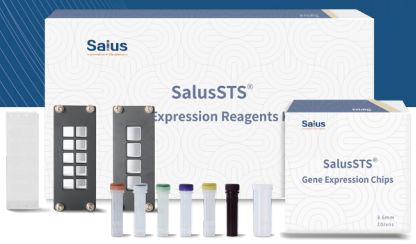
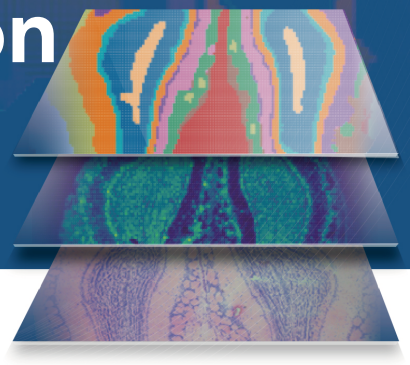
Salus
innovation in life science

Salus Spatial Transcriptomics Solution

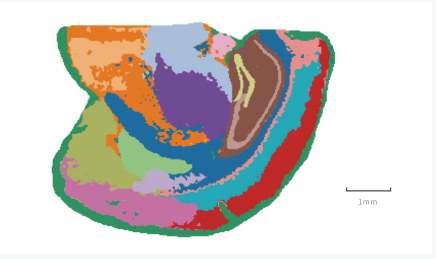
Molecular insights at subcellular resolution





The Salus Spatial Transcriptomics Solution (SalusSTS) is a powerful genomics research tool that includes ultra high-density chips, a gene sequencer, and a data analysis toolkit.

SalusSTS enables researchers to accurately and efficiently obtain spatial gene expression data from tissues at subcellular resolution.

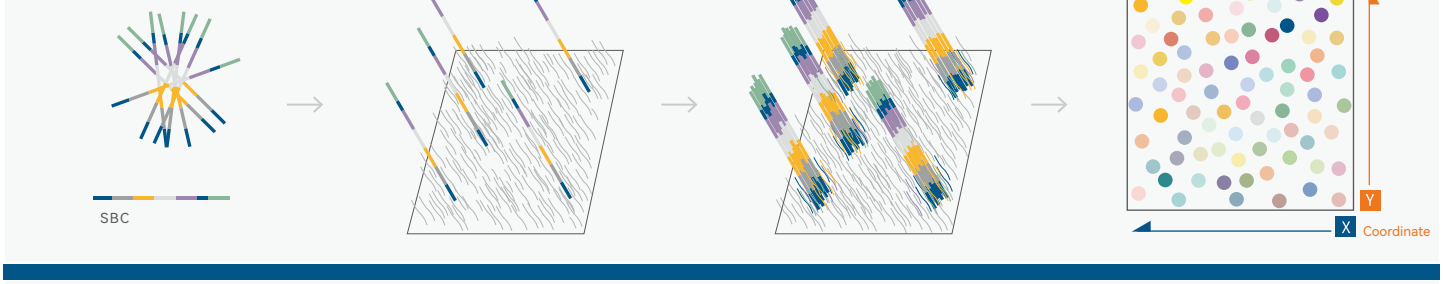


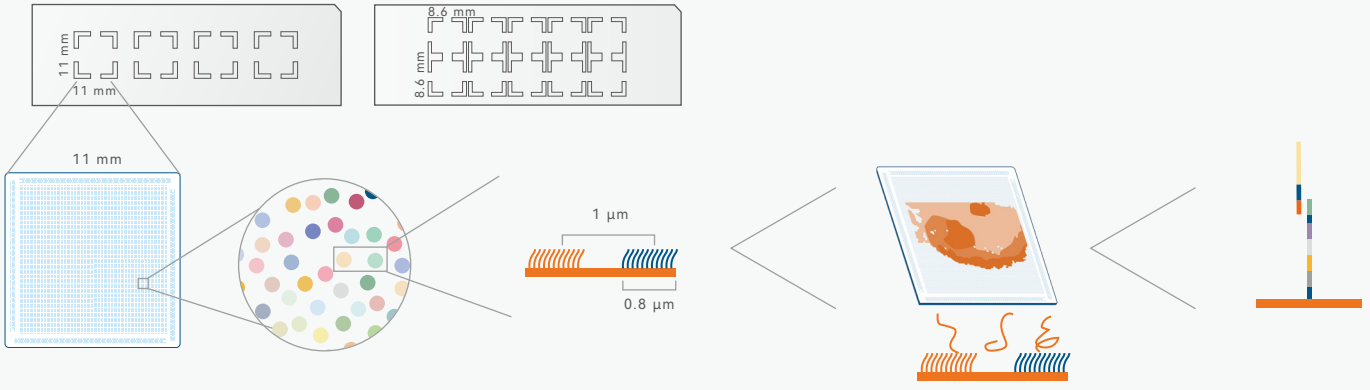
25 μm resolution

Salus Spatial Transcriptomics

Spatial Transcriptomics (ST) Chip for mRNA capture and spatial localization at 1 μm resolution

Random barcode generation	Hybridization	Amplification	Analyze the mapping relationship between spatial barcodes and coordinates





V3.0

Key Features

Subcellular Resolution

A resolution of up to 1 μm, supporting precise spatial localization at the subcellular level.

Flexible Capture Area

Captures 1 - 10 samples either individually or in batches. The tissue and chip are firmly bonded through covalent bonds, ensuring high probe stability and minimal batch-to-batch variation.

High Capture Efficiency

Ultra high-density probes (~55000/μm^2), offering superior capture efficiency.

High Throughput

Captures a wide range of transcript data from the tissue section, facilitating the detection of novel and low-abundance transcripts.

Large Tissue Research

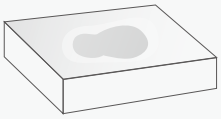
Supports chip sizes of 8.6 x 8.6 mm^2 and 11 x 11 mm^2, with customizable capture areas for larger tissues.

Customizable Probes

Supports both targeted and non-targeted capture, and is applicable to various species and tissue types.

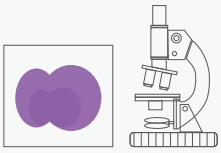
Salus Spatial Transcriptomics Workflow

1 Sample Preparation and Quality Control



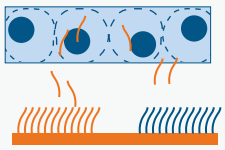
OCT Embedding, Freezing, and RNA Quality Control

2 Tissue Sectioning and Staining



Tissue Sectioning, Mounting, H&E Staining, and Imaging

3 Tissue Permeabilization and cDNA Synthesis



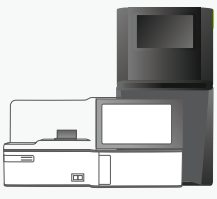
mRNA Capture and cDNA Synthesis

4 Library Preparation



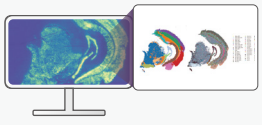
Preparation of Sequencing Libraries from cDNA Samples

5 Sequencing



Salus NGS Platforms

6 Data Analysis and Visualization



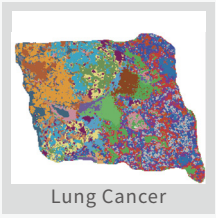
Data Quality Control, Analysis, obtain spatially resolved Gene Expression

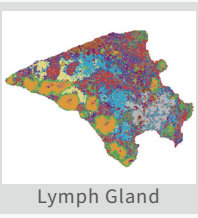
Salus Spatial Transcriptomics Solution

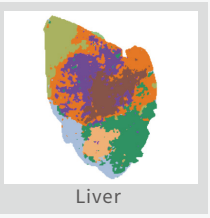


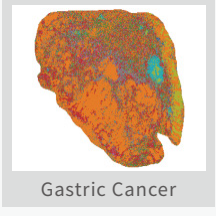
Data Demonstrations

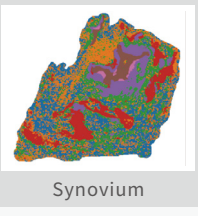
Human Tissue

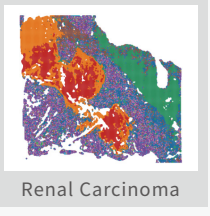

Lung Cancer

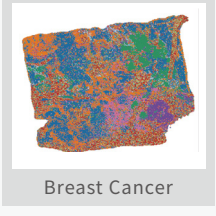

Lymph Gland

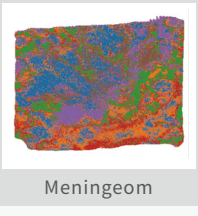

Liver

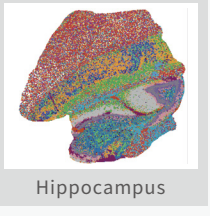

Gastric Cancer


Synovium

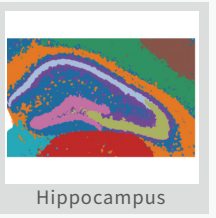

Renal Carcinoma

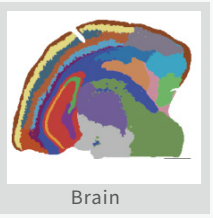

Breast Cancer

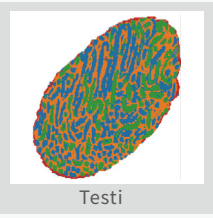

Meningeom

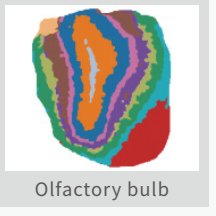

Hippocampus

Mouse Tissue

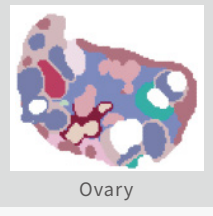

Hippocampus

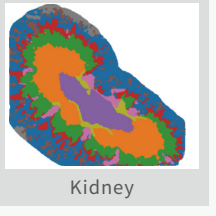

Brain


Testi

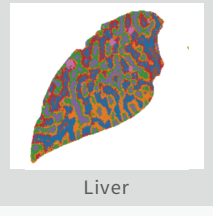

Olfactory bulb


Small Intestine


Ovary

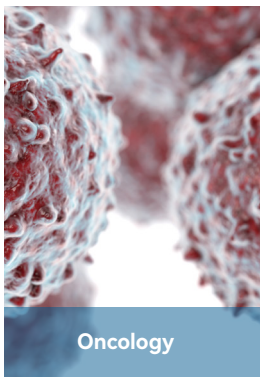

Kidney

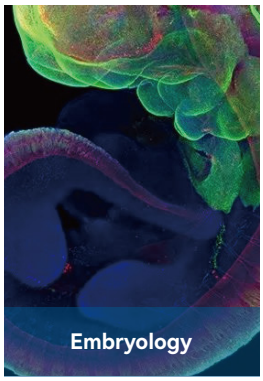

Spleen

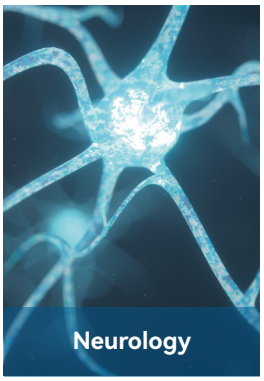

Liver

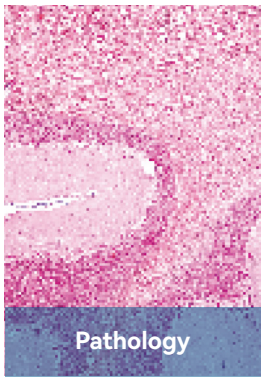
Research Areas

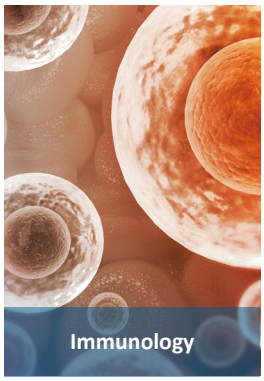
Spatial transcriptomics technology enables researchers to explore into cell-cell interactions at the molecular level, facilitating new biological discoveries. This technology can be applied in tumor research, embryonic tissue development, neurobiology, moleculer pathology, immunology and emerging fields.











Specifications

Size	8.6 mm × 8.6 mm × 10； 11 mm × 11 mm × 4
Diameter of the spot	0.8 μm
Center to center (resolution)	~1 μm
Number of spots / 100 X 100 μm^2	5,000
Number of probes / μm^2	~55000
Bin analysis	5 μm – 100 μm
Capture method	Non-targeted and targeted capture
Species	Human, animals and plants
Sample type	Fresh frozen tissue (FF)

After-sale service 400-80-SALUS (72587)

Salus and its authorized partners authorised partners provide after-sale service, including operational training and technical support.

Salus

Empower and Cooperate

Innovation for a better life. Powered by a multidisciplinary team in engineering, chemistry, molecular biology, and bioinformatics, Salus operates internationally and is dedicated to delivering high-throughput genetic sequencing platforms and super-resolution spatial omics tools to the life science industry, empowering users across clinical and academic applications.


Sequencing Lab


Manufacturing Facilities


Enzyme Development


Reagent Production Line

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