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Spatial OMICS Market Size, Share, & Trends Analysis Report By Technology (Spatial Transcriptomics, Spatial Genomics, Spatial Proteomics), By Product, By Workflow, By Sample Type, By End Use, By Region, And Segment Forecasts, 2025 - 2030

https://marketpublishers.com/r/S8632F6D74A4EN.html
Date: March 2025
Pages: 120
Price: US$ 5,950.00 (Single User License)
ID: S8632F6D74A4EN

Abstracts

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Spatial OMICS Market Growth & Trends

The global spatial OMICS market size is estimated treach USD 1696.5 million by 2030, expanding at a CAGR of 16.3% from 2025 t2030, according ta new report by Grand View Research, Inc. The COVID-19 pandemic slowed down many industries worldwide. However, this market did not face the extensive negative impact of the pandemic.

Startups and well-established players continued their product development and launched novel solutions, democratized their offerings beyond innovators, and engaged in mergers & acquisitions. The spatial OMICS field originated from hyperplexed imaging; however, key players have shifted toward the development of spatial transcriptomics solutions and products.

Rapid advances in the sequencing of tissues, genes, and single cells have resulted in the emergence of spatial genomic sequencing. Spatial OMICS techniques offer quantitative gene expression data and visualization of DNA and RNA mapping within tissue sections. The development of novel technologies for spatial OMICS is anticipated tcreate lucrative opportunities for the fields of translational research as well as diagnostics.

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The spatial genomics technology segment is expected texpand at the fastest CAGR throughout the forecast period owing ta rise in the launch of novel platforms. The integration of high-throughput solutions in transcriptomics, genomics, and proteomics studies has enabled determining the link between disease occurrence and genome position.

The instruments product held the second-largest share in 2020 owing tthe launch of new automated solutions for spatial OMIC studies. For instance, in March 2021, Rebus Biosystems launched the new Rebus Esper spatial omics platform for a better understanding of tissue biology. The new integrated and automated instrument delivers quantitative single-cell, single-molecule data with subcellular resolution and spatial context by using advanced fluidics, imaging, chemistry, and bioinformatics solutions.

The fresh frozen sample type is expected twitness significant growth over the forecast period. The advantages of fresh frozen samples in proteomics are validated by several research studies. For instance, in March 2021, a study concluded that Filter Aided Sample Preparation (FASP) technique yielded 20% more protein identifications by using fresh frozen samples than formalin-fixed, paraffin-embedded (FFPE) samples.

North America held the largest share in 2020 owing tan increase in focus on translational research, rise in government support for genomics and sequencing technologies, high demand for personalized medicine, and the presence of a substantial number of translational and academic research organizations.

Spatial OMICS Market Report Highlights

By technology, The spatial transcriptomics segment dominated and held the largest market share of 71.7% in 2024 as most of the available products are based on mRNA analysis for positional information

In terms of product, the consumables segment accounted for the largest market share of 56.2% in 2024, owing thigh product penetration, increasing use of reagents & kits, wide product availability, and frequent purchase of consumables trun the instruments.

Based on workflow, the instrumental analysis segment dominated the market and held the largest market share of 47.4% in 2024.

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The fresh frozen sample type is anticipated texpand at a lucrative CAGR from 2024 t2030 as fresh frozen tissue preserves the native state of proteins and hence are adopted in spatial proteomics analysis

On the basis of end use, the academic and translational research institutes dominated the market in 2023 owing tan increase in biomedical research in academic universities

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