

# Global Spatial Transcriptomics Market Size study, by Technology (Spatial Transcriptomics, Spatial Genomics), by Product (Consumables, Software), by End-use, and Regional Forecasts 2022-2032

https://marketpublishers.com/r/GA30EDA8D490EN.html

Date: May 2025

Pages: 285

Price: US\$ 3,218.00 (Single User License)

ID: GA30EDA8D490EN

#### **Abstracts**

The Global Spatial Transcriptomics Market is valued approximately at USD 0.26 billion in 2023 and is anticipated to expand at a promising CAGR of more than 12.20% over the forecast period 2024-2032. Spatial transcriptomics is emerging as a paradigm-shifting innovation in molecular biology and tissue analysis, redefining how researchers visualize gene expression patterns within the spatial context of tissues. Unlike traditional transcriptomics that analyze bulk RNA, spatial transcriptomics enables scientists to uncover the spatial architecture of gene activity with unprecedented precision, offering deeper insights into cellular behavior, disease mechanisms, and tissue microenvironments. This holistic, data-rich approach has become a cornerstone for unraveling complexities in fields like oncology, neuroscience, and developmental biology. Fuelled by the integration of next-generation sequencing (NGS) and advanced imaging techniques, the market is gaining traction as it transitions from academic research labs to widespread clinical and pharmaceutical applications.

The market is being bolstered by a confluence of driving factors including the rising prevalence of chronic diseases, increasing focus on single-cell biology, and growing demand for precision medicine. Pharmaceutical companies and research institutions are harnessing spatial transcriptomics to develop novel biomarkers, decipher tumor heterogeneity, and accelerate drug discovery programs. For instance, collaborations between biotech firms and genomic technology developers have led to the launch of high-resolution spatial profiling tools that enhance data accuracy and reduce turnaround time. Moreover, advancements in machine learning and Al-powered bioinformatics platforms are streamlining the analysis of spatial transcriptomic datasets, thereby



enhancing the utility of the data for diagnostic and therapeutic applications. However, despite its promising trajectory, the market continues to face hurdles including high costs of platforms, limited standardization, and the requirement for highly skilled personnel.

As spatial transcriptomics gradually matures into a commercially viable technology, stakeholders are increasingly investing in developing scalable workflows, robust analysis tools, and integrated multi-omics approaches. Companies are diversifying their offerings to cater to both consumables—such as slides, reagents, and sequencing kits—and software that supports visualization and mapping of spatial data. This dual-segment growth is vital to addressing the demand from end-users such as academic research institutions, pharmaceutical companies, and clinical laboratories. Particularly, spatial genomics—a complementary subset that focuses on mapping DNA sequences—has gained traction alongside transcriptomics, creating new avenues for studying gene regulation and chromatin architecture in situ. Together, these technologies are driving a scientific evolution in understanding how cellular function is orchestrated in the native tissue environment.

In terms of regional dynamics, North America currently dominates the spatial transcriptomics market owing to its cutting-edge genomic research infrastructure, heavy R&D investments, and presence of key market players. The U.S. leads with robust funding from federal agencies like NIH and consistent partnerships between academia and biotech companies. Europe is also a major contributor, with countries such as Germany, the UK, and Sweden emerging as innovation hubs through their contributions to collaborative research consortia and adoption of precision medicine frameworks. Asia Pacific, on the other hand, is projected to be the fastest-growing region during the forecast period, driven by rising genomic research funding in China and India, increasing healthcare infrastructure investments, and a rapidly expanding base of molecular biology research facilities. As governments and institutions across these regions prioritize genomic innovation, the market outlook remains profoundly optimistic.

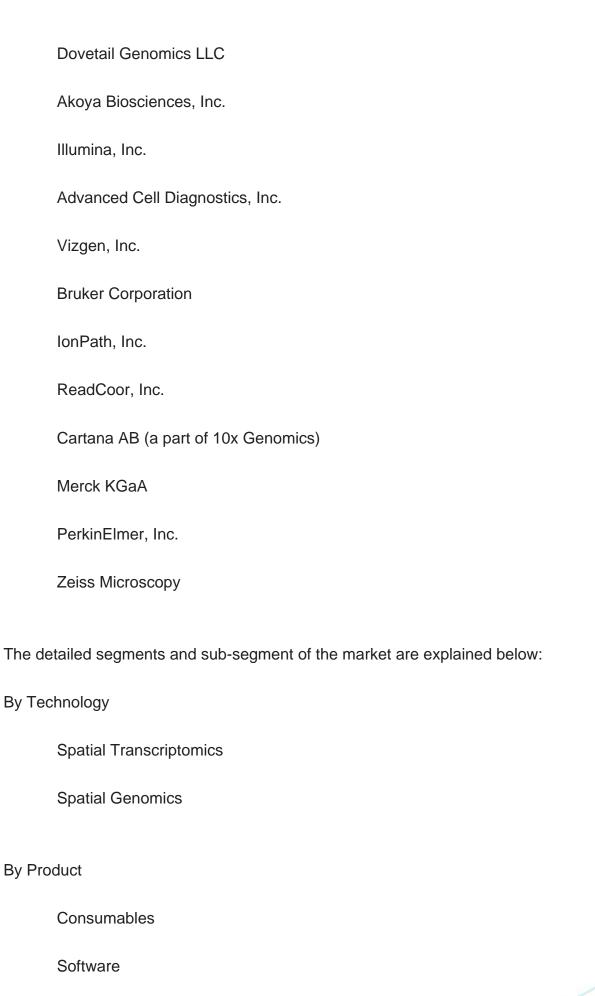
Major market player included in this report are:

10x Genomics, Inc.

NanoString Technologies, Inc.

Bio-Techne Corporation







## By End-use Academic and Research Institutions Pharmaceutical and Biotechnology Companies Clinical Laboratories Others By Region: North America U.S. Canada Europe UK Germany France Spain Italy ROE

Asia Pacific



China
India
Japan
Australia
South Korea
RoAPAC
Latin America
Brazil
Mexico
Middle East & Africa
Saudi Arabia
South Africa
RoMEA
Years considered for the study are as follows:
Historical year – 2022
Base year – 2023
Forecast period – 2024 to 2032
Key Takeaways:



Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.



#### **Contents**

### CHAPTER 1. GLOBAL SPATIAL TRANSCRIPTOMICS MARKET EXECUTIVE SUMMARY

- 1.1. Global Spatial Transcriptomics Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
  - 1.3.1. By Technology
  - 1.3.2. By Product
  - 1.3.3. By End-use
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

## CHAPTER 2. GLOBAL SPATIAL TRANSCRIPTOMICS MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
  - 2.3.1. Inclusion & Exclusion
  - 2.3.2. Limitations
  - 2.3.3. Supply Side Analysis
    - 2.3.3.1. Availability
    - 2.3.3.2. Infrastructure
    - 2.3.3.3. Regulatory Environment
    - 2.3.3.4. Market Competition
    - 2.3.3.5. Economic Viability (Consumer's Perspective)
  - 2.3.4. Demand Side Analysis
    - 2.3.4.1. Regulatory Frameworks
    - 2.3.4.2. Technological Advancements
    - 2.3.4.3. Environmental Considerations
    - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

#### **CHAPTER 3. GLOBAL SPATIAL TRANSCRIPTOMICS MARKET DYNAMICS**



- 3.1. Market Drivers
  - 3.1.1. Rising Demand for Precision Medicine and Single-Cell Insights
  - 3.1.2. Integration of NGS and Advanced Imaging Techniques
  - 3.1.3. Increased Adoption of Al-Powered Bioinformatics Platforms
- 3.2. Market Challenges
  - 3.2.1. High Cost of Platforms and Reagents
  - 3.2.2. Limited Standardization Across Protocols
  - 3.2.3. Shortage of Skilled Technical Personnel
- 3.3. Market Opportunities
  - 3.3.1. Expansion of Multi-Omics and Clinical Diagnostics Applications
  - 3.3.2. Rapid Growth in Emerging Markets (APAC & LATAM)
  - 3.3.3. Collaboration Between Pharma and Technology Providers

## CHAPTER 4. GLOBAL SPATIAL TRANSCRIPTOMICS MARKET INDUSTRY ANALYSIS

- 4.1. Porter's 5 Force Model
  - 4.1.1. Bargaining Power of Suppliers
  - 4.1.2. Bargaining Power of Buyers
  - 4.1.3. Threat of New Entrants
  - 4.1.4. Threat of Substitutes
  - 4.1.5. Competitive Rivalry
  - 4.1.6. Futuristic Approach to Porter's 5 Force Model
  - 4.1.7. Porter's 5 Force Impact Analysis
- 4.2. PESTEL Analysis
  - 4.2.1. Political
  - 4.2.2. Economical
  - 4.2.3. Social
  - 4.2.4. Technological
  - 4.2.5. Environmental
  - 4.2.6. Legal
- 4.3. Top Investment Opportunities
- 4.4. Top Winning Strategies
- 4.5. Disruptive Trends
- 4.6. Industry Expert Perspective
- 4.7. Analyst Recommendation & Conclusion

#### **CHAPTER 5. GLOBAL SPATIAL TRANSCRIPTOMICS MARKET SIZE &**



#### **FORECASTS BY TECHNOLOGY 2022-2032**

- 5.1. Segment Dashboard
- 5.2. Global Spatial Transcriptomics Market: Technology Revenue Trend Analysis, 2022& 2032 (USD Million/Billion)
  - 5.2.1. Spatial Transcriptomics
  - 5.2.2. Spatial Genomics

## CHAPTER 6. GLOBAL SPATIAL TRANSCRIPTOMICS MARKET SIZE & FORECASTS BY PRODUCT 2022-2032

- 6.1. Segment Dashboard
- Global Spatial Transcriptomics Market: Product Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)
  - 6.2.1. Consumables
  - 6.2.2. Software

## CHAPTER 7. GLOBAL SPATIAL TRANSCRIPTOMICS MARKET SIZE & FORECASTS BY END-USE 2022-2032

- 7.1. Segment Dashboard
- 7.2. Global Spatial Transcriptomics Market: End-use Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)
  - 7.2.1. Academic and Research Institutions
  - 7.2.2. Pharmaceutical and Biotechnology Companies
  - 7.2.3. Clinical Laboratories
  - 7.2.4. Others

## CHAPTER 8. GLOBAL SPATIAL TRANSCRIPTOMICS MARKET SIZE & FORECASTS BY REGION 2022-2032

- 8.1. North America Market
  - 8.1.1. U.S. Market
    - 8.1.1.1. Technology breakdown size & forecasts, 2022-2032
    - 8.1.1.2. Product breakdown size & forecasts, 2022-2032
  - 8.1.2. Canada Market
- 8.2. Europe Market
  - 8.2.1. U.K. Market
  - 8.2.2. Germany Market



- 8.2.3. France Market
- 8.2.4. Spain Market
- 8.2.5. Italy Market
- 8.2.6. Rest of Europe Market
- 8.3. Asia Pacific Market
  - 8.3.1. China Market
  - 8.3.2. India Market
  - 8.3.3. Japan Market
  - 8.3.4. Australia Market
  - 8.3.5. South Korea Market
  - 8.3.6. Rest of Asia Pacific Market
- 8.4. Latin America Market
  - 8.4.1. Brazil Market
  - 8.4.2. Mexico Market
  - 8.4.3. Rest of Latin America Market
- 8.5. Middle East & Africa Market
  - 8.5.1. Saudi Arabia Market
  - 8.5.2. South Africa Market
  - 8.5.3. Rest of Middle East & Africa Market

#### **CHAPTER 9. COMPETITIVE INTELLIGENCE**

- 9.1. Key Company SWOT Analysis
  - 9.1.1. 10x Genomics, Inc.
  - 9.1.2. NanoString Technologies, Inc.
  - 9.1.3. Illumina, Inc.
- 9.2. Top Market Strategies
- 9.3. Company Profiles
  - 9.3.1. 10x Genomics, Inc.
    - 9.3.1.1. Key Information
    - 9.3.1.2. Overview
    - 9.3.1.3. Financial (Subject to Data Availability)
    - 9.3.1.4. Product Summary
    - 9.3.1.5. Market Strategies
  - 9.3.2. NanoString Technologies, Inc.
  - 9.3.3. Bio-Techne Corporation
  - 9.3.4. Dovetail Genomics LLC
  - 9.3.5. Akoya Biosciences, Inc.
  - 9.3.6. Advanced Cell Diagnostics, Inc.



- 9.3.7. Vizgen, Inc.
- 9.3.8. Bruker Corporation
- 9.3.9. IonPath, Inc.
- 9.3.10. ReadCoor, Inc.

#### **CHAPTER 10. RESEARCH PROCESS**

- 10.1. Research Process
  - 10.1.1. Data Mining
  - 10.1.2. Analysis
  - 10.1.3. Market Estimation
  - 10.1.4. Validation
  - 10.1.5. Publishing
- 10.2. Research Attributes



#### I would like to order

Product name: Global Spatial Transcriptomics Market Size study, by Technology (Spatial

Transcriptomics, Spatial Genomics), by Product (Consumables, Software), by End-use,

and Regional Forecasts 2022-2032

Product link: https://marketpublishers.com/r/GA30EDA8D490EN.html

Price: US\$ 3,218.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer

Service:

info@marketpublishers.com

#### **Payment**

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <a href="https://marketpublishers.com/r/GA30EDA8D490EN.html">https://marketpublishers.com/r/GA30EDA8D490EN.html</a>