

# Single-Cell Analysis Transcriptomics Market Report 2025 – Insights for Long-Term Investment & Planning

*The Business Research Company's Single-Cell Analysis Transcriptomics Global Market Report 2025 – Market Size, Trends, And Global Forecast 2025-2034*

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/EINPresswire.com/ -- What Is The Growth Trajectory Of The Single-Cell Analysis Transcriptomics Market?

The single-cell analysis transcriptomics marketplace has witnessed rapid growth in the recent past. It is projected to expand from \$0.97 billion in 2024 to \$1.09 billion in 2025 at a compound annual growth rate CAGR of 12.7%. This surge during the historic period can be attributed to the escalating demand for personalized medicine, the increasing prevalence of chronic and rare

diseases, the rise of personalized medicine, expanding demand for high-throughput sequencing, and the proliferation of applications in cancer research.

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The Business Research Company's Latest Report Explores Market Driver, Trends, Regional Insights - Market Sizing & Forecasts Through 2034”

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What Is The Projected Growth And Size Of The Single-Cell Analysis Transcriptomics Market?

The [single-cell analysis transcriptomics market size](#) is forecasted to experience swift growth in the ensuing years, expanding to \$1.74 billion in 2029 at a compound annual growth rate CAGR of 12.4%. This anticipated growth in the forecast period is set to be driven by the increasing use in

drug discovery and development, an expanding adoption of precision medicine, government initiatives supporting genomics research, and advances in the affordability of sequencing technologies. Significant trends during this period include advancements in microfluidics and sequencing platforms, the integration of artificial intelligence in data analysis, the development of multi-omics approaches, and innovations in single-cell isolation techniques, coupled with a focus on spatial transcriptomics.

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Single-Cell Analysis Transcriptomics Global Market  
Report 2025



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What Are The Major Market Drivers For Single-Cell Analysis Transcriptomics Market?

One major driver expected to fuel the growth of the single-cell analysis transcriptomics market in the near future is the increasing adoption of personalized medicine. Personalized medicine refers to a medical approach that customizes treatment based on an individual's genetic profile, lifestyle, and environment. The upsurge in the adoption of personalized medicine has been facilitated by significant strides in genetic sequencing, enabling tailored treatments to individual genetic profiles, thus enhancing efficacy. Single-cell analysis transcriptomics helps uncover individual gene expression profiles, subsequently guiding personalized treatments based on a patient's unique biology. It enhances the effectiveness of treatment, reduces side effects, and promotes early disease diagnosis. For instance, in February 2024, according to the Personalized Medicine Coalition, a US-based hospital and healthcare organization, the U.S. Food and Drug Administration approved 16 new personalized treatments for rare disease patients in 2023, up from six in 2022.

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Who Are The Key Industry Players And What Recent Advancements Have Been Made?

The single-cell analysis transcriptomics arena is populated by major players including Merck KGaA, Thermo Fisher Scientific Inc., Danaher Corporation, Becton Dickinson and Company, Agilent Technologies Inc., Sartorius Aktiengesellschaft, Illumina Inc., Bio-Rad Laboratories Inc., Bruker Corporation, QIAGEN N.V., 10x Genomics Inc., Abcam Limited, Novogene Co. Ltd., Standard BioTools Inc., Akoya Biosciences Inc., Parse Biosciences Inc., Cell Microsystems Inc., Mission Bio Inc., Relation Therapeutics Ltd., CYTENA GmbH, Fluent BioSciences

What Are The Emerging Trends In The Single-Cell Analysis Transcriptomics Market?

Major companies operating in the single-cell analysis transcriptomics market are primarily focusing on creating innovative products, such as single-cell RNA sequencing kits, to streamline workflows and gain deeper insights into cellular heterogeneity. For instance, in June 2022, Fluent BioSciences Inc., a US-based biotechnology company specializing in single-cell analysis and molecular research technologies, launched PIPseq T2 and T20 v3.0 kits. These kits offer sensitive, scalable, and flexible transcriptomic analysis suitable for low-cell diversity studies and large-scale tissue profiling, making them a highly accessible and cost-effective single-cell RNA sequencing resource.

How Is The [Single-Cell Analysis Transcriptomics Market Segmented?](#)

The single-cell analysis transcriptomics market is divided by –

1 By Component: Equipment, Consumables, Software And Services

2 By Technology: Single-Cell Ribonucleic Acid RNA Sequencing, Microfluidics-Based Techniques,

Other Technologies

3 By Application: Clinical Diagnostics, Developmental Biology, Drug Discovery, Other Applications

4 By End-User: Academic And Research Institutions, Hospitals And Diagnostic Centers, Pharmaceutical And Biotechnology Companies

What Regional Insights Are Provided For The Single-Cell Analysis Transcriptomics Market?

North America was the largest region in the single-cell analysis transcriptomics market in 2024. In contrast, Asia-Pacific is projected to be the fastest-growing region in the forecast period. The report covers regions including Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, and Africa.

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