

Next-Generation Sequencing Informatics Market Trends Support A 16.6% CAGR Outlook Through The Forecast Period

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/EINPresswire.com/ -- "The field of next-generation sequencing

informatics has witnessed remarkable growth in recent years, driven by advances in genomic technologies and the increasing need for precise genetic analysis. As the demand for personalized healthcare solutions rises, this market is poised for substantial expansion. Let's explore the current market size, key growth drivers, major players, and emerging trends shaping the future of next-generation sequencing informatics.

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Expected to grow to \$22.14 billion in 2030 at a compound annual growth rate (CAGR) of 16.6%”

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Projected Market Size and Growth Trajectory of the Next-Generation Sequencing Informatics Market

The next-generation sequencing informatics market has experienced rapid expansion, with its value expected to increase from \$10.23 billion in 2025 to \$11.96 billion in 2026, representing a compound annual growth rate (CAGR) of 16.9%. This growth during the historical period is largely

fueled by the rising demand for precision diagnostics, advancements in high-throughput sequencing technologies, expanding genomic research initiatives, growing awareness of personalized medicine, and the enhancement of bioinformatics capabilities.

Download a free sample of the next-generation sequencing informatics market report:

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Looking ahead, the market is forecast to continue its swift growth, reaching \$22.14 billion by 2030 with a CAGR of 16.6%. Factors driving this projected expansion include technological

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improvements in NGS informatics software, widespread adoption of cloud-based genomic platforms, increasing partnerships between biotechnology and pharmaceutical companies, the rising prevalence of genetic disorders, and the integration of artificial intelligence and machine learning into genomic analysis workflows. Key trends expected to influence the market encompass AI-powered data interpretation, cloud sequencing solutions, personalized medicine applications, automation within sequencing processes, and the use of IoT technologies in genomic studies.

Understanding Next-Generation Sequencing Informatics and Its Role

Next-generation sequencing (NGS) informatics involves the use of sophisticated computational tools and algorithms to handle, analyze, and interpret the vast amounts of DNA or RNA sequencing data generated by NGS technologies. Its fundamental purpose is to efficiently detect genetic variations, mutations, and expression patterns, thereby supporting various applications such as genomics research, personalized healthcare, diagnostic procedures, and drug discovery efforts.

View the full next-generation sequencing informatics market report:

https://www.thebusinessresearchcompany.com/report/next-generation-sequencing-informatics-global-market-report?utm_source=EINPresswire&utm_medium=Paid&utm_campaign=Aug_PR

How Personalized Medicine Acts as a Critical Growth Driver for the NGS Informatics Market

The surge in personalized medicine adoption is a pivotal factor propelling the next-generation sequencing informatics market forward. Personalized medicine tailors medical treatments and preventive strategies based on an individual's unique genetic profile, lifestyle, and environmental factors. This approach is gaining momentum due to significant advancements in genomics that enable precise identification of genetic differences and customized therapies.

NGS informatics plays a crucial role in enhancing personalized medicine by offering thorough genomic data analysis, which supports tailored treatment plans and precision healthcare delivery. By uncovering genetic variations and predicting disease risks, it helps reduce diagnostic uncertainty and improves clinical decision-making and patient outcomes. For example, in February 2024, the Personalized Medicine Coalition (PMC), a US-based nonprofit organization, reported that the U.S. Food and Drug Administration (FDA) approved 26 new personalized medicines in 2023, a notable increase from the 12 approvals recorded in 2022. This growing acceptance of personalized medicine continues to drive the demand for next-generation sequencing informatics solutions.

Regional Leadership and Growth Patterns in the Next-Generation Sequencing Informatics Market

In 2025, North America held the largest share of the [next-generation sequencing informatics market](#), maintaining its leadership position. Meanwhile, the Asia-Pacific region is expected to experience the fastest growth throughout the forecast period. The market analysis covers diverse regions, including Asia-Pacific, South East Asia, Western Europe, Eastern Europe, North

America, South America, the Middle East, and Africa, providing a comprehensive global perspective on market trends and opportunities.

Our latest 2026 market reports provide expanded strategic and visual intelligence with market attractiveness scoring and analysis, total addressable market (TAM) analysis, company scoring matrix graphics and tables, Excel-based forecasting dashboards, market hotspots infographics, key technologies and future trend analysis, together with updated graphics and tables.

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