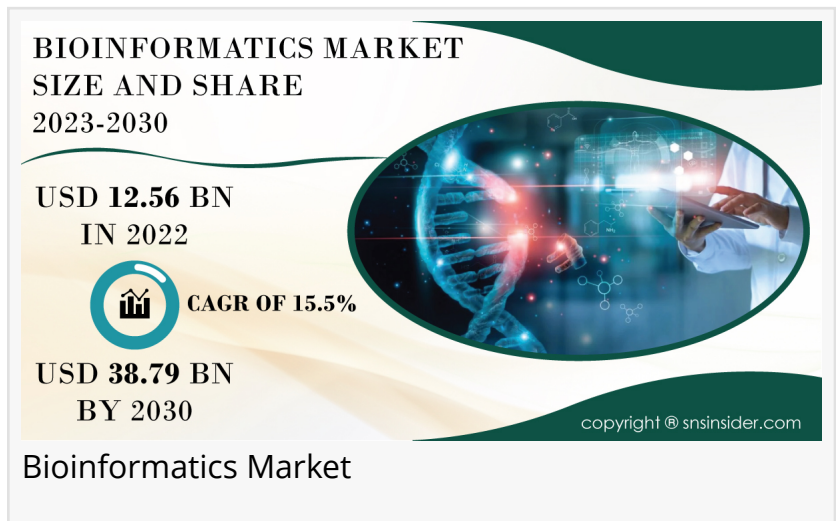


Global Bioinformatics Market Size to Reach USD 38.79 Billion by 2030 Says SNS Insider

Bioinformatics Market Shows Exponential Growth Driven by Rising Demand for Personalized Medicine and Growing Importance of Big Data Analytics

AUSTIN, TEXAS, UNITED STATES, January 11, 2024 /EINPresswire.com/ -- Based on SNS Insider's research, the [Bioinformatics Market](#) is propelled by a confluence of factors, including the surge in genomic research, the demand for personalized medicine, integration of AI and ML, expanding applications in drug discovery, and the growing importance of big data analytics.



The bioinformatics market, as indicated by the SNS Insider report, attained a valuation of USD 12.56 billion in 2022 and is projected to achieve USD 38.79 billion by 2030, experiencing a robust compound annual growth rate (CAGR) of 15.5% during the forecast period from 2023 to 2030.

bioinformatics market size and share 2023-2030

Bioinformatics is an interdisciplinary field that combines biology, computer science, and information technology to analyze and interpret biological data. It involves the development and application of computational tools and techniques to manage, analyze, and visualize biological information. Bioinformatics plays a crucial role in genomics, proteomics, and other omics disciplines, enabling researchers to extract meaningful insights from large datasets. Key components include sequence analysis, structural biology, functional genomics, and systems biology.

bioinformatics market size and share 2023-2030

The bioinformatics market is poised for significant growth, driven by several key factors. Firstly, advancements in genomics and personalized medicine have increased the demand for sophisticated bioinformatics tools to analyze and interpret complex biological data. Additionally,

the rising prevalence of chronic diseases has fueled the need for bioinformatics solutions in drug discovery and development. The integration of artificial intelligence and machine learning into bioinformatics tools further enhances their capabilities, providing more accurate and efficient data analysis. The influx of big data in life sciences necessitates robust analytics solutions, making bioinformatics a key player in data management and analysis. Bioinformatics tools efficiently handle large-scale biological datasets, extracting meaningful patterns and correlations. This capability is pivotal in unraveling the complexities of biological systems, fostering a deeper understanding of diseases, and informing more precise interventions.

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By Product & Services

- Knowledge Management Tools
- Bioinformatics Services
- Bioinformatics Platforms

By Application

- Genomics
- Transcriptomics
- Metabolomics
- Chemoinformatics & Drug Design
- Proteomics

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The ongoing recession has mixed implications for the bioinformatics market. On the positive side, cost-effective and efficient solutions are likely to gain prominence as organizations seek ways to optimize their resources. Bioinformatics, being a crucial tool in drug discovery and development, may experience increased attention as the pharmaceutical industry focuses on innovation to overcome economic challenges. However, budget constraints may hinder the adoption of advanced bioinformatics technologies, impacting the market's growth to some extent.

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The Russia-Ukraine War has potential implications for the bioinformatics market. On the negative side, geopolitical instability can disrupt supply chains and impact international collaborations in scientific research, potentially slowing down advancements in bioinformatics. Conversely, the increased focus on domestic innovation in affected regions might stimulate investment in bioinformatics as countries strive for self-sufficiency in critical sectors. The net

impact depends on the duration and severity of the conflict.

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The bioinformatics market exhibits diverse regional dynamics. In North America, a robust healthcare infrastructure and substantial investments in research and development drive market growth. Europe, with its emphasis on precision medicine, is a key player in bioinformatics adoption. Asia-Pacific is witnessing rapid growth due to increasing healthcare awareness and rising research activities. Latin America and the Middle East also contribute to the market's expansion, albeit at a slower pace.

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- Affymetrix
- BIOVIA
- Agilent Technologies
- BioWisdom Ltd
- Celera Corporation
- IBM
- Life Sciences
- Illumina
- Life Technologies Corporation
- 3rd Millennium

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The knowledge management tools segment is poised to dominate the market. As the volume of biological data continues to grow, efficient tools for data storage, retrieval, and analysis become paramount. Knowledge management tools streamline information access and facilitate collaboration among researchers, making them essential in bioinformatics applications.

Within the bioinformatics market, the genomics segment is anticipated to hold a dominant position. The increasing focus on understanding the genetic basis of diseases and the advent of affordable sequencing technologies propel genomics research. Bioinformatics tools are integral to managing and analyzing vast genomic datasets, driving the dominance of the genomics segment in the overall market.

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FOXO Technologies has recently unveiled its cutting-edge Bioinformatics Services, poised to

redefine the landscape of epigenetic data analysis. The company's latest venture promises to bring about a revolutionary transformation in the way researchers and scientists interpret and harness the power of epigenetic information.

Excelra has successfully acquired BISC Global, consolidating their positions to create an international bioinformatics powerhouse. This acquisition underscores Excelra's commitment to expanding its global footprint and bolstering its capabilities in the rapidly evolving field of bioinformatics.

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1. Bioinformatics Market Overview:

- Definition & Scope
- Research Assumptions

2. Bioinformatics Market Trends:

- Drivers & Restraints
- Opportunities & Challenges

3. External Influences:

- COVID-19 Impact
- Ukraine-Russia War Impact
- Recession Impact (Global & Regional)

4. Value Chain & Competition:

- Value Chain Analysis
- Porter's 5 Forces Analysis
- PEST Analysis

5. Bioinformatics Market Segments:

- Products & Services (Knowledge Tools, Bioinformatics Services, Platforms)
- Applications (Genomics, Transcriptomics, etc.)

6. Regional Analysis:

- North America (USA, Canada, Mexico)
- Europe (Germany, UK, France, etc.)
- Asia-Pacific (Japan, China, India, etc.)
- Middle East & Africa
- Latin America

7. Key Players:

- bioinformatics Company Profiles (Financial, Products, SWOT)

- Competitive Benchmarking & Market Share

8. Conclusion & Outlook

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