Computational Biology Market Upcoming Trends, Analysis by Regions, Growth and Research Methodology Forecast to 2030

Market Size – USD 3.58 Billion in 2019, Market Growth - CAGR of 22.4%, Market trends –Advancement in technology, and increased investment in R&D

Emergen Research Logo

VANCOUVER, BC, CANADA, November 15, 2022 /EINPresswire.com/ -- The global Computational Biology Market is forecasted to be worth USD 16.58 Billion by 2027, according to a current analysis by Emergen Research. Computational biology is used to analyze biological data such as cell populations, genetic sequences, and protein samples and also discover new predictions.

The advent of innovative technologies such as sequencing, and high-throughput experimental methods like yeast two-hybrid, microarray, and chip-chip assays are generating a demand for mathematical modeling, analytical methods, and simulations for effective and hassle-free analysis of the data. Advancement in technology has opened up many options for innovation in the healthcare sector. Increased government funding, investments in research and development, and a rise in demand for predictive modeling for usage in various sequencing projects are driving the demand for the computational biology market.

Several companies are doing clinical studies in pharmacogenomics, and an increase in the number of clinical trials will propel the demand for the market in the coming years. An upsurge in the design and development of personalized medicine and disease modeling will also impact the demand. Computational biology also reduces the risk of human involvement in the clinical testing process, which further boosts the demand for the market's product.

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Some Key Highlights from the Report

In July 2020, the U.S. Department of Energy announced a funding of USD 5 million in computational biology for six new research projects. The purpose of the funding is to develop new analytical tools and software for managing an increase in the quantity of genomics and other data resulting from the study of microbes and other biological systems.
The In-House service-type segment is anticipated to grow with the fastest CAGR of 22.8% during the forecast period. Several Biopharma companies are undertaking clinical trials in their own buildings to avoid extra cost and also to prevent the risk of leakage of their pipeline projects. Moreover, as technology is becoming affordable, more companies are opting for in-house service.
The cellular & biology simulation segment is driven due to the high demand from computational genomics. The segment will witness growth owing to recent developments in IT technologies and cloud computing. Computational genomics is more specifically used for pattern recognition and analysis problems such as motif finding, gene finding, gene function prediction, evolutionary models, and fusion of sequence and expression information.
The commercial end-use segment dominated the computational biology market. Increased usage of the technology for personalized medicine and drug designing by pharmaceutical companies is propelling its demand. Several genetic disorders require specific customized treatment, which is creating a trend for personalized medicine.
North America is a hub for R&D in computational biology. The region witnessed increased investment by private and public companies in research for the development of effective medicine and therapies. It is also home to key companies involved in the market.
Top Leading Key Players are:

Chemical Computing Group, Compugen, Simulation Plus, Genedata, Certara, Insilico Biotechnology, Accelrys, Rhenovia Pharma, Entelos, Nimbus Discovery, among others.

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For the purpose of this report, Emergen Research has segmented into the global Computational Biology Market on the basis of service-type, application, end-use, and region:

Service-Type Outlook (Revenue, USD Billion; 2017-2027)

In-House
Contract
Application Outlook (Revenue, USD Billion; 2017-2027)

Cellular & Biology Simulation

Computational Genomics

Database
Infrastructure / Hardware
Software & Services
Computational Proteomics
Pharmacogenomics
Others
Drug discovery and disease modeling

Target identification
Target Validation
Lead Discovery
Lead Optimization
Pre-clinical drug development

Pharmacokinetics
Pharmacodynamics
Clinical trials

Phase I
Phase II
Phase III
Human Body Simulation Software

End-Use Outlook (Revenue, USD Billion; 2017-2027)

Academics
Industry
Commercial

Leading businesses who are looking for new sources of income will find this research to be quite helpful in understanding the market and its underlying dynamics. It will be helpful for businesses looking to diversify into new markets or increase the scope of their current operations.

How will this Report Benefit you?

A 250-page report from Emergen Research includes 194 tables and 189 charts and graphics. Anyone in need of commercial, in-depth assessments for the global Computational Biology market, as well as comprehensive market segment analysis, can benefit from our new study. You can assess the whole regional and global market for Computational Biology with the aid of our recent study. To increase market share, obtain financial analysis of the whole market and its various segments. We think there are significant prospects in this industry for rapidly expanding

energy storage technology. Look at how you may utilise the current and potential revenue-generating prospects in this sector. The research will also assist you in making better strategic decisions, enabling you to build growth strategies, strengthen competitor analysis, and increase business productivity.

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What Questions Should You Ask before Buying a Market Research Report?

• How is the Computational Biology market evolving?

• What is driving and restraining the Computational Biology market?

• How will each Computational Biology submarket segment grow over the forecast period and how much revenue will these submarkets account for in 2027?

• How will the market shares for each Computational Biology submarket develop from 2020 to 2027?

• What will be the main driver for the overall market from 2020 to 2027?

• Will leading Computational Biology markets broadly follow the macroeconomic dynamics, or will individual national markets outperform others?

• How will the market shares of the national markets change by 2027 and which geographical region will lead the market in 2027?

• Who are the leading players and what are their prospects over the forecast period?

• What are the Computational Biology projects for these leading companies?

• How will the industry evolve during the period between 2020 and 2027? What are the implications of Computational Biology projects taking place now and over the next 10 years?

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