

Computational Biology Market : Growing at a CAGR of 22.4% : Will Hit USD 16.58 Billion by 2027 : Says Emergen Research

The growing application of computational biology in proteomics, genomics, and epigenomics, & gene sequencing is driving the demand for the market.

VANCOUVER, B.C, CANADA, May 3, 2023 /EINPresswire.com/ -- According to a recent study by Emergen Research, the worldwide [computational biology market](#) is expected to be valued USD 16.58 billion by 2027. Biological data, such as cell populations, genetic sequences, and protein samples, are analysed using computational biology to make new predictions.



There is an increasing need for mathematical modelling, analytical techniques, and simulations due to the introduction of novel technologies like sequencing and high-throughput experimental methods like yeast two-hybrid, microarray, and chip-chip assays. Technology development has created a wide range of possibilities for healthcare innovation. The need for the computational biology market is being driven by increased government spending, investments in R&D, and a growth in the demand for predictive modelling for use in various sequencing initiatives.

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Computational Biology 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

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Competitive Landscape:

Furthermore, the report includes an in-depth analysis of the competitive landscape. The segment covers a comprehensive overview of the company profiles along with product profiles, production capacities, products/services, pricing analysis, profit margins, and manufacturing process developments. The report also covers strategic business measures undertaken by the companies to gain substantial market share. The report provides insightful information about recent mergers and acquisitions, product launches, collaborations, joint ventures, partnerships, agreements, and government deals.

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

Key Parameters Analyzed in This Section:

Company Profiles

Gross Revenue

Profit margins

Product sales trends

Product pricing

Industry Analysis

Sales & distribution channels

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Some Key Highlights from the Report

The US Department of Energy announced in July 2020 that it would finance six new computational biology research initiatives with USD 5 million. The funds will be used to create new analytical tools and software to manage the growing amount of genomics and other data that will be generated by the study of microorganisms and other biological systems.

During the forecast period, the In-House service-type segment is anticipated to grow at the fastest CAGR of 22.8%. In order to save money and reduce the possibility of pipeline projects leaking, several biopharma companies are conducting clinical trials inside their own premises. Additionally, as technology becomes more accessible, more businesses choose in-house service.

The high demand from computational genomics drives the cellular and biology simulation market. The sector will expand as a result of recent advancements in cloud computing and IT technology. More precisely, challenges including motif discovery, gene discovery, gene function prediction, evolutionary models, and the fusion of sequencing and expression data are dealt with by computational genomics.

The computational biology market was controlled by the commercial end-use segment. Pharmaceutical businesses are using technology more frequently for personalised treatment and medication development, which is driving up demand. The need for specialised, customised care for a number of hereditary illnesses is fueling the push towards personalised medicine.

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

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Regional Segmentation;

North America (U.S., Canada)

Europe (U.K., Italy, Germany, France, Rest of EU)

Asia Pacific (India, Japan, China, South Korea, Australia, Rest of APAC)

Latin America (Chile, Brazil, Argentina, Rest of Latin America)

Middle East & Africa (Saudi Arabia, U.A.E., South Africa, Rest of MEA)

Additional information offered by the report:

Along with a complete overview of the global Computational Biology market, the report provides detailed scrutiny of the diverse market trends observed on both regional and global levels.

The report elaborates on the global Computational Biology market size and share governed by the major geographies.

It performs a precise market growth forecast analysis, cost analysis, and a study of the micro- and macro-economic indicators.

It further presents a detailed description of the company profiles of the key market contenders.

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