Computational Biology Market Growth - CAGR of 22.4% | Advancement in Technology and Increased Investment in R&D.

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

Emergen Research Logo

VANCOUVER, BC, CANADA, March 31, 2022 /EINPresswire.com/ -- The Global Computational Biology Market report presents a comprehensive analysis of the Computational Biology market that offers valuable insights to the investors, stakeholders, and business strategists for the forecast period of 2020-2027. 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.

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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.

Competitive Outlook:
The global Computational Biology market is highly consolidated due to the presence of a large number of companies across this industry. These companies are known to make hefty investments in research and development projects. Also, they control a considerable portion of the overall market share, thus limiting the entry of new players into the sector. The global Computational Biology market report studies the prudent tactics undertaken by the leading market players, such as partnerships and collaborations, mergers & acquisitions, new product launches, and joint ventures.

Some of the key participants in this industry include: Chemical Computing Group, Compugen, Simulation Plus, Genedata, Certara, Insilico Biotechnology, Accelrys, Rhenovia Pharma, Entelos, Nimbus Discovery, among others.

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The report accurately offers insights into the supply-demand ratio and production and consumption volume of each segment.
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

To know more about the report, visit @ https://www.emergenresearch.com/industry-report/computational-biology-market

The various regions analyzed in the report include:
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)

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.

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Table of Contents:
Chapter 1 includes an introduction of the global Computational Biology market, along with a comprehensive market overview, market scope, product offerings, and an investigation of the market drivers, growth opportunities, risks, restraints, and other vital factors.

Chapter 2 offers an in-depth analysis of the key manufacturers engaged in this business vertical, along with their sales and revenue estimations.

Chapter 3 elaborates on the highly competitive terrain of the market, highlighting the key manufacturers and vendors.

In Chapter 4, our team has fragmented the market on the basis of regions, underscoring the sales, revenue, and market share of each region over the forecast timeline.

Chapters 5 and 6 have laid emphasis on the market segmentation based on product type and application.

Thank you for reading our report. For further details or to inquire about the customization of the report, please let us know. We will offer you the report as per your requirements.

About Emergen Research
Emergen Research is a market research and consulting company that provides syndicated research reports, customized research reports, and consulting services. Our solutions purely focus on your purpose to locate, target, and analyze consumer behavior shifts across demographics, across industries, and help clients make smarter business decisions. We offer market intelligence studies ensuring relevant and fact-based research across multiple industries, including Healthcare, Touch Points, Chemicals, Types, and Energy. We consistently update our research offerings to ensure our clients are aware of the latest trends existent in the market. Emergen Research has a strong base of experienced analysts from varied areas of expertise. Our industry experience and ability to develop a concrete solution to any research problems provides our clients with the ability to secure an edge over their respective competitors.

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