+44 20 8123 2220
info@marketpublishers.com

Computational Biology Market Size, Trends, Analysis, and Outlook By Service (Databases, Infrastructure & Hardware, Software Platforms), By Application (Drug Discovery & Disease Modelling, Preclinical Drug Development, Clinical Trials, Computational Genomics, Computational Proteomics, Others), By End-User (Academic & Research, Industrial), by Region, Country, Segment, and Companies, 2024-2030

https://marketpublishers.com/r/C7D54AA1F287EN.html
Date: March 2024
Pages: 190
Price: US$ 3,980.00 (Single User License)
ID: C7D54AA1F287EN

Abstracts

The global Computational Biology market size is poised to register 15.15% growth from 2024 to 2030, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global Computational Biology market across By Service (Databases, Infrastructure & Hardware, Software Platforms), By Application (Drug Discovery & Disease Modelling, Preclinical Drug Development, Clinical Trials, Computational Genomics, Computational Proteomics, Others), By End-User (Academic & Research, Industrial).

The computational biology market is witnessing rapid growth due to increasing demand for bioinformatics tools, advancements in genomics and proteomics research, and rising applications in drug discovery, systems biology, and personalized medicine. Computational biology encompasses the application of computational algorithms, mathematical models, and statistical methods to analyze biological data, predict molecular interactions, and simulate biological processes at the molecular and cellular levels, enabling researchers to gain insights into complex biological systems and unravel the mechanisms of disease. With a focus on data-driven discovery and precision medicine, bioinformaticians, computational biologists, and biomedical

+44 20 8123 2220
info@marketpublishers.com

researchers are utilizing bioinformatics software, computational modeling platforms, and machine learning algorithms to analyze omics data, predict drug targets, and design novel therapeutics with improved efficacy and safety profiles, driving innovation in computational biology and biomedical informatics research.

Computational Biology Market Drivers, Trends, Opportunities, and Growth Opportunities

This comprehensive study discusses the latest trends and the most pressing challenges for industry players and investors. The Computational Biology market research analyses the global market trends, key drivers, challenges, and opportunities in the industry. In addition, the latest Future of Computational Biology survey report provides the market size outlook across types, applications, and other segments across the world and regions. It provides data-driven insights and actionable recommendations for companies in the Computational Biology industry.

Key market trends defining the global Computational Biology demand in 2024 and Beyond

The industry continues to remain an attractive hub for opportunities for both domestic and global vendors. As the market evolves, factors such as emerging market dynamics, demand from end-user sectors, a growing patient base, changes in consumption patterns, and widening distribution channels continue to play a major role.

Computational Biology Market Segmentation- Industry Share, Market Size, and Outlook to 2030

The Computational Biology industry comprises a wide range of segments and sub-segments. The rising demand for these product types and applications is supporting companies to increase their investment levels across niche segments. Accordingly, leading companies plan to generate a large share of their future revenue growth from expansion into these niche segments. The report presents the market size outlook across segments to support Computational Biology companies scaling up production in these sub-segments with a focus on expanding into emerging countries.

Key strategies adopted by companies within the Computational Biology industry

Leading Computational Biology companies are boosting investments to capitalize on untapped potential and future possibilities across niche market segments and surging demand conditions in key regions. Further, companies are leveraging advanced

+44 20 8123 2220
info@marketpublishers.com

technologies to unlock opportunities and achieve operational excellence. The report provides key strategies opted for by the top 10 Computational Biology companies.

Computational Biology Market Study- Strategic Analysis Review

The Computational Biology market research report dives deep into the qualitative factors shaping the market, empowering you to make informed decisions-

Industry Dynamics: Porter's Five Forces analysis to understand bargaining power, competitive rivalry, and threats that impact long-term strategy formulation.

Strategic Insights: Provides valuable perspectives on key players and their approaches based on comprehensive strategy analysis.

Internal Strengths and Weaknesses: Develop targeted strategies to leverage strengths, address weaknesses, and capitalize on market opportunities.

Future Possibilities: Prepare for diverse outcomes with in-depth scenario analysis. Explore potential market disruptions, technology advancements, and economic changes.

Computational Biology Market Size Outlook- Historic and Forecast Revenue in Three Cases

The Computational Biology industry report provides a detailed analysis and outlook of revenue generated by companies from 2018 to 2023. Further, with actual data for 2023, the report forecasts the market size outlook from 2024 to 2030 in three case scenarios- low case, reference case, and high case scenarios.

Computational Biology Country Analysis and Revenue Outlook to 2030

The report analyses 22 countries worldwide including the key driving forces and market size outlook from 2021 to 2030. In addition, region analysis across Asia Pacific, Europe, the Middle East, Africa, North America, and South America is included in the study. For each of the six regions, the market size outlook by segments is forecast for 2030.

North America Computational Biology Market Size Outlook- Companies plan for

+44 20 8123 2220
info@marketpublishers.com

focused investments in a changing environment

The US continues to remain the market leader in North America, driven by a large consumer base, the presence of well-established providers, and a strong end-user industry demand. Leading companies focus on new product launches in the changing environment. The US economy is expected to grow in 2024 (around 2.2% growth in 2024), potentially driving demand for various Computational Biology market segments. Similarly, Strong end-user demand is encouraging Canadian Computational Biology companies to invest in niche segments. Further, as Mexico continues to strengthen its trade relations and invest in technological advancements, the Mexico Computational Biology market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

Europe Computational Biology Market Size Outlook-Companies investing in assessing consumers, categories, competitors, and capabilities

The German industry remains the major market for companies in the European Computational Biology industry with consumers in Germany, France, the UK, Spain, Italy, and others anticipated to register a steady demand throughout the forecast period, driving the overall market prospects. In addition, the proactive approach of businesses in identifying and leveraging new growth prospects positions the European Computational Biology market for an upward trajectory, fostering both domestic and international interest. Leading brands operating in the industry are emphasizing effective marketing strategies, innovative product offerings, and a keen understanding of consumer preferences.

Asia Pacific Computational Biology Market Size Outlook- an attractive hub for opportunities for both local and global companies

The increasing prevalence of indications, robust healthcare expenditure, and increasing investments in healthcare infrastructure drive the demand for Computational Biology in Asia Pacific. In particular, China, India, and South East Asian Computational Biology markets present a compelling outlook for 2030, acting as a magnet for both domestic and multinational manufacturers seeking growth opportunities. Similarly, with a burgeoning population and a rising middle class, India offers a vast consumer market. Japanese and Korean companies are quickly aligning their strategies to navigate changes, explore new markets, and enhance their competitive edge. Our report utilizes in-depth interviews with industry experts and comprehensive data analysis to provide a comprehensive outlook of 6 major markets in the region.

+44 20 8123 2220
info@marketpublishers.com

Latin America Computational Biology Market Size Outlook- Continued urbanization and rising income levels

Rising income levels contribute to greater purchasing power among consumers, spurring consumption and creating opportunities for market expansion. Continued urbanization and rising income levels are expected to sustainably drive consumption growth in the medium to long term.

Middle East and Africa Computational Biology Market Size Outlook- continues its upward trajectory across segments

Robust demand from Middle Eastern countries including Saudi Arabia, the UAE, Qatar, Kuwait, and other GCC countries supports the overall Middle East Computational Biology market potential. Fueled by increasing healthcare expenditure of individuals, growing population, and high prevalence across a few markets drives the demand for Computational Biology.

Computational Biology Market Company Profiles

The global Computational Biology market is characterized by intense competitive conditions with leading companies opting for aggressive marketing to gain market shares. The report presents business descriptions, SWOT analysis, growth strategies, and financial profiles. Leading companies included in the study are Certara, Chemical Computing Group ULC, Compugen Ltd, Dassault Syst?mes SE, Genedata AG, Insilico Biotechnology AG, Instem Plc, Nimbus Discovery LLC, Rosa & Co. LLC, Schrodinger, Simulation Plus Inc, Strand Life Sciences

Recent Computational Biology Market Developments

The global Computational Biology market study presents recent market news and developments including new product launches, mergers, acquisitions, expansions, product approvals, and other updates in the industry.

Computational Biology Market Report Scope

Parameters: Revenue, Volume Price

Study Period: 2023 (Base Year); 2018- 2023 (Historic Period); 2024- 2030 (Forecast

+44 20 8123 2220
info@marketpublishers.com

Period)

Currency: USD; (Upon request, can be provided in Euro, JPY, GBP, and other Local Currency)

Qualitative Analysis

- Pricing Analysis
- Value Chain Analysis
- SWOT Profile
- Market Dynamics- Trends, Drivers, Challenges
- Porter’s Five Forces Analysis
- Macroeconomic Impact Analysis
- Case Scenarios- Low, Base, High

Market Segmentation:

By Service

Databases

Infrastructure & Hardware

Software Platforms

By Application

Drug Discovery & Disease Modelling

-Target Identification

-Target Validation

+44 20 8123 2220
info@marketpublishers.com

-Lead Discovery

-Lead Optimization

Preclinical Drug Development

-Pharmacokinetics

-Pharmacodynamics

Clinical Trials

-Phase I

-Phase II

-Phase III

-Phase IV

Computational Genomics

Computational Proteomics

Others

By End-user

Academic & Research

Industrial

Geographical Segmentation:

North America (3 markets)

Europe (6 markets)

+44 20 8123 2220
info@marketpublishers.com

Asia Pacific (6 markets)

Latin America (3 markets)

Middle East Africa (5 markets)

Companies

Certara

Chemical Computing Group ULC

Compugen Ltd

Dassault Syst?mes SE

Genedata AG

Insilico Biotechnology AG

Instem Plc

Nimbus Discovery LLC

Rosa & Co. LLC

Schrodinger

Simulation Plus Inc

Strand Life Sciences

Formats Available: Excel, PDF, and PPT

+44 20 8123 2220
info@marketpublishers.com

Contents

1. EXECUTIVE SUMMARY

1.1 Computational Biology Market Overview and Key Findings, 2024
1.2 Computational Biology Market Size and Growth Outlook, 2021- 2030
1.3 Computational Biology Market Growth Opportunities to 2030
1.4 Key Computational Biology Market Trends and Challenges
  1.4.1 Computational Biology Market Drivers and Trends
  1.4.2 Computational Biology Market Challenges
1.5 Competitive Landscape and Key Players
1.6 Competitive Analysis- Growth Strategies Adopted by Leading Computational Biology Companies

2. COMPUTATIONAL BIOLOGY MARKET SIZE OUTLOOK TO 2030

2.1 Computational Biology Market Size Outlook, USD Million, 2021- 2030
2.2 Computational Biology Incremental Market Growth Outlook, %, 2021- 2030
2.3 Segment Snapshot, 2024

3. COMPUTATIONAL BIOLOGY MARKET- STRATEGIC ANALYSIS REVIEW

3.1 Porter's Five Forces Analysis
* Threat of New Entrants
* Threat of Substitutes
* Intensity of Competitive Rivalry
* Bargaining Power of Buyers
* Bargaining Power of Suppliers
3.2 Value Chain Analysis
3.3 SWOT Analysis

4. COMPUTATIONAL BIOLOGY MARKET SEGMENTATION ANALYSIS AND OUTLOOK

4.1 Market Segmentation and Scope
4.2 Market Breakdown by Type, Application, and Other Segments, 2021-2030
By Service
Databases
Infrastructure & Hardware

+44 20 8123 2220
info@marketpublishers.com

Software Platforms
By Application
Drug Discovery & Disease Modelling
-Target Identification
-Target Validation
-Lead Discovery
-Lead Optimization
Preclinical Drug Development
-Pharmacokinetics
-Pharmacodynamics
Clinical Trials
-Phase I
-Phase II
-Phase III
-Phase IV
Computational Genomics
Computational Proteomics
Others
By End-user
Academic & Research
Industrial
4.3 Growth Prospects and Niche Opportunities, 2023- 2030
4.4 Regional comparison of Market Growth, CAGR, 2023-2030

5. REGION-WISE MARKET OUTLOOK TO 2030

5.1 Key Findings for Asia Pacific Computational Biology Market, 2025
5.2 Asia Pacific Computational Biology Market Size Outlook by Type, 2021- 2030
5.3 Asia Pacific Computational Biology Market Size Outlook by Application, 2021- 2030
5.4 Key Findings for Europe Computational Biology Market, 2025
5.5 Europe Computational Biology Market Size Outlook by Type, 2021- 2030
5.6 Europe Computational Biology Market Size Outlook by Application, 2021- 2030
5.7 Key Findings for North America Computational Biology Market, 2025
5.8 North America Computational Biology Market Size Outlook by Type, 2021- 2030
5.9 North America Computational Biology Market Size Outlook by Application, 2021- 2030
5.10 Key Findings for South America Computational Biology Market, 2025
5.11 South America Pacific Computational Biology Market Size Outlook by Type, 2021- 2030

+44 20 8123 2220
info@marketpublishers.com

5.12 South America Computational Biology Market Size Outlook by Application, 2021-2030
5.13 Key Findings for Middle East and Africa Computational Biology Market, 2025
5.14 Middle East Africa Computational Biology Market Size Outlook by Type, 2021-2030
5.15 Middle East Africa Computational Biology Market Size Outlook by Application, 2021- 2030

6. COUNTRY-WISE MARKET SIZE OUTLOOK TO 2030

6.1 US Computational Biology Market Size Outlook and Revenue Growth Forecasts
6.2 US Computational Biology Industry Drivers and Opportunities
6.3 Canada Market Size Outlook and Revenue Growth Forecasts
6.4 Canada Computational Biology Industry Drivers and Opportunities
6.6 Mexico Market Size Outlook and Revenue Growth Forecasts
6.6 Mexico Computational Biology Industry Drivers and Opportunities
6.7 Germany Market Size Outlook and Revenue Growth Forecasts
6.8 Germany Computational Biology Industry Drivers and Opportunities
6.9 France Market Size Outlook and Revenue Growth Forecasts
6.10 France Computational Biology Industry Drivers and Opportunities
6.11 UK Market Size Outlook and Revenue Growth Forecasts
6.12 UK Computational Biology Industry Drivers and Opportunities
6.13 Spain Market Size Outlook and Revenue Growth Forecasts
6.14 Spain Computational Biology Industry Drivers and Opportunities
6.16 Italy Market Size Outlook and Revenue Growth Forecasts
6.16 Italy Computational Biology Industry Drivers and Opportunities
6.17 Rest of Europe Market Size Outlook and Revenue Growth Forecasts
6.18 Rest of Europe Computational Biology Industry Drivers and Opportunities
6.19 China Market Size Outlook and Revenue Growth Forecasts
6.20 China Computational Biology Industry Drivers and Opportunities
6.21 India Market Size Outlook and Revenue Growth Forecasts
6.22 India Computational Biology Industry Drivers and Opportunities
6.23 Japan Market Size Outlook and Revenue Growth Forecasts
6.24 Japan Computational Biology Industry Drivers and Opportunities
6.26 South Korea Market Size Outlook and Revenue Growth Forecasts
6.26 South Korea Computational Biology Industry Drivers and Opportunities
6.27 Australia Market Size Outlook and Revenue Growth Forecasts
6.28 Australia Computational Biology Industry Drivers and Opportunities
6.29 South East Asia Market Size Outlook and Revenue Growth Forecasts

+44 20 8123 2220
info@marketpublishers.com

6.30 South East Asia Computational Biology Industry Drivers and Opportunities
6.31 Rest of Asia Pacific Market Size Outlook and Revenue Growth Forecasts
6.32 Rest of Asia Pacific Computational Biology Industry Drivers and Opportunities
6.33 Brazil Market Size Outlook and Revenue Growth Forecasts
6.34 Brazil Computational Biology Industry Drivers and Opportunities
6.36 Argentina Market Size Outlook and Revenue Growth Forecasts
6.36 Argentina Computational Biology Industry Drivers and Opportunities
6.37 Rest of South America Market Size Outlook and Revenue Growth Forecasts
6.38 Rest of South America Computational Biology Industry Drivers and Opportunities
6.39 Middle East Market Size Outlook and Revenue Growth Forecasts
6.40 Middle East Computational Biology Industry Drivers and Opportunities
6.41 Africa Market Size Outlook and Revenue Growth Forecasts
6.42 Africa Computational Biology Industry Drivers and Opportunities

7. COMPUTATIONAL BIOLOGY MARKET OUTLOOK ACROSS SCENARIOS

7.1 Low Growth Case
7.2 Reference Growth Case
7.3 High Growth Case

8. COMPUTATIONAL BIOLOGY COMPANY PROFILES

8.1 Profiles of Leading Computational Biology Companies in the Market
8.2 Business Descriptions, SWOT Analysis, and Growth Strategies
8.3 Financial Performance and Key Metrics
Certara
Chemical Computing Group ULC
Compugen Ltd
Dassault Syst?mes SE
Genedata AG
Insilico Biotechnology AG
Instem Plc
Nimbus Discovery LLC
Rosa & Co. LLC
Schrodinger
Simulation Plus Inc
Strand Life Sciences

9. APPENDIX

+44 20 8123 2220
info@marketpublishers.com

9.1 Scope of the Report
9.2 Research Methodology and Data Sources
9.3 Glossary of Terms
9.4 Market Definitions
9.5 Contact Information

+44 20 8123 2220
info@marketpublishers.com

I would like to order

Product name: Computational Biology Market Size, Trends, Analysis, and Outlook By Service (Databases, Infrastructure & Hardware, Software Platforms), By Application (Drug Discovery & Disease Modelling, Preclinical Drug Development, Clinical Trials, Computational Genomics, Computational Proteomics, Others), By End-User (Academic & Research, Industrial), by Region, Country, Segment, and Companies, 2024-2030

Product link: https://marketpublishers.com/r/C7D54AA1F287EN.html

Price: US$ 3,980.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/C7D54AA1F287EN.html

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

**All fields are required

Custumer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at https://marketpublishers.com/docs/terms.html

+44 20 8123 2220
info@marketpublishers.com

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970