

Chemoinformatics Market Report by Application (Chemical Analysis, Drug Discovery, Drug Validation, and Others), and Region 2024-2032

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Abstracts

The global chemoinformatics market size reached US\$ 6.3 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 12.7 Billion by 2032, exhibiting a growth rate (CAGR) of 7.9% during 2024-2032.

Chemoinformatics is a new field of information technology (IT) that focuses on the collection, storage, analysis, and manipulation of chemical data. The chemical data includes small molecule formulas, structures, properties, spectra, and biological and industrial activities. Chemoinformatics helps define archival data protocols and represent three-dimensional (3D) molecular structures, which further enables searching and comparing of compounds with specific features. As a result, it is widely used in the pharmaceutical industry to discover and develop novel biotechnological processes and products.

Chemoinformatics Market Trends:

At present, the outbreak of coronavirus disease (COVID-19) represents one of the major factors positively influencing the utilization of chemoinformatics in anti-viral research or discovery of therapeutics against the disease. Apart from this, the surging cases of chronic diseases and the consequent need for novel drugs are also influencing the market growth. The increasing investments in research and development (R&D) projects are also catalyzing the demand for chemoinformatics to validate potential drug candidates and the effective management of data generated during molecular and atomic reactions. Moreover, the increasing awareness about personalized medicine is driving the market growth. Due to the massive amount of data generated while synthesizing new drugs, the leading market players are integrating advanced

information storage and retrieval technologies in chemoinformatics. This helps researchers in efficiently storing information about the physical properties, 3D molecular and crystal structures, spectroscopic signatures, chemical reaction pathways, molecular functional groups and docking sites, and other parameters. These innovations are anticipated to propel the market growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global chemoinformatics market report, along with forecasts at the global, regional and country levels from 2024-2032. Our report has categorized the market based on application.

Breakup by Application:

Chemical Analysis

Drug Discovery

Drug Validation

Others

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Agilent Technologies Inc., Bio-Rad Laboratories Inc.,

BioSolveIT GmbH, BIOVIA (Dassault Syst?mes), ChemAxon, Inc., Eurofins CEREP SA (Eurofins Panlabs Inc.), Jubilant Biosys Inc., Molecular Discovery Ltd., OpenEye Scientific Software Inc. and Schr?dinger Inc.

Key Questions Answered in This Report:

How has the global chemoinformatics market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global chemoinformatics market?

What are the key regional markets?

What is the breakup of the market based on the application?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global chemoinformatics market and who are the key players?

What is the degree of competition in the industry?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL CHEMOINFORMATICS MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY APPLICATION

- 6.1 Chemical Analysis
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Drug Discovery
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3 Drug Validation

- 6.3.1 Market Trends
- 6.3.2 Market Forecast
- 6.4 Others
 - 6.4.1 Market Trends
 - 6.4.2 Market Forecast

7 MARKET BREAKUP BY REGION

- 7.1 North America
 - 7.1.1 United States
 - 7.1.1.1 Market Trends
 - 7.1.1.2 Market Forecast
 - 7.1.2 Canada
 - 7.1.2.1 Market Trends
 - 7.1.2.2 Market Forecast
- 7.2 Asia-Pacific
 - 7.2.1 China
 - 7.2.1.1 Market Trends
 - 7.2.1.2 Market Forecast
 - 7.2.2 Japan
 - 7.2.2.1 Market Trends
 - 7.2.2.2 Market Forecast
 - 7.2.3 India
 - 7.2.3.1 Market Trends
 - 7.2.3.2 Market Forecast
 - 7.2.4 South Korea
 - 7.2.4.1 Market Trends
 - 7.2.4.2 Market Forecast
 - 7.2.5 Australia
 - 7.2.5.1 Market Trends
 - 7.2.5.2 Market Forecast
 - 7.2.6 Indonesia
 - 7.2.6.1 Market Trends
 - 7.2.6.2 Market Forecast
 - 7.2.7 Others
 - 7.2.7.1 Market Trends
 - 7.2.7.2 Market Forecast
- 7.3 Europe
 - 7.3.1 Germany

- 7.3.1.1 Market Trends
- 7.3.1.2 Market Forecast
- 7.3.2 France
 - 7.3.2.1 Market Trends
 - 7.3.2.2 Market Forecast
- 7.3.3 United Kingdom
 - 7.3.3.1 Market Trends
 - 7.3.3.2 Market Forecast
- 7.3.4 Italy
 - 7.3.4.1 Market Trends
 - 7.3.4.2 Market Forecast
- 7.3.5 Spain
 - 7.3.5.1 Market Trends
 - 7.3.5.2 Market Forecast
- 7.3.6 Russia
 - 7.3.6.1 Market Trends
 - 7.3.6.2 Market Forecast
- 7.3.7 Others
 - 7.3.7.1 Market Trends
 - 7.3.7.2 Market Forecast
- 7.4 Latin America
 - 7.4.1 Brazil
 - 7.4.1.1 Market Trends
 - 7.4.1.2 Market Forecast
 - 7.4.2 Mexico
 - 7.4.2.1 Market Trends
 - 7.4.2.2 Market Forecast
 - 7.4.3 Others
 - 7.4.3.1 Market Trends
 - 7.4.3.2 Market Forecast
- 7.5 Middle East and Africa
 - 7.5.1 Market Trends
 - 7.5.2 Market Breakup by Country
 - 7.5.3 Market Forecast

8 SWOT ANALYSIS

- 8.1 Overview
- 8.2 Strengths

8.3 Weaknesses

8.4 Opportunities

8.5 Threats

9 VALUE CHAIN ANALYSIS

10 PORTERS FIVE FORCES ANALYSIS

10.1 Overview

10.2 Bargaining Power of Buyers

10.3 Bargaining Power of Suppliers

10.4 Degree of Competition

10.5 Threat of New Entrants

10.6 Threat of Substitutes

11 PRICE ANALYSIS

12 COMPETITIVE LANDSCAPE

12.1 Market Structure

12.2 Key Players

12.3 Profiles of Key Players

12.3.1 Agilent Technologies Inc.

12.3.1.1 Company Overview

12.3.1.2 Product Portfolio

12.3.1.3 Financials

12.3.1.4 SWOT Analysis

12.3.2 Bio-Rad Laboratories Inc.

12.3.2.1 Company Overview

12.3.2.2 Product Portfolio

12.3.2.3 Financials

12.3.2.4 SWOT Analysis

12.3.3 BioSolveIT GmbH

12.3.3.1 Company Overview

12.3.3.2 Product Portfolio

12.3.3.3 Financials

12.3.4 BIOVIA (Dassault Syst?mes)

12.3.4.1 Company Overview

12.3.4.2 Product Portfolio

- 12.3.5 ChemAxon Inc.
 - 12.3.5.1 Company Overview
 - 12.3.5.2 Product Portfolio
- 12.3.6 Eurofins CEREP SA (Eurofins Panlabs Inc.)
 - 12.3.6.1 Company Overview
 - 12.3.6.2 Product Portfolio
- 12.3.7 Jubilant Biosys Inc.
 - 12.3.7.1 Company Overview
 - 12.3.7.2 Product Portfolio
- 12.3.8 Molecular Discovery Ltd.
 - 12.3.8.1 Company Overview
 - 12.3.8.2 Product Portfolio
 - 12.3.8.3 Financials
- 12.3.9 OpenEye Scientific Software Inc.
 - 12.3.9.1 Company Overview
 - 12.3.9.2 Product Portfolio
- 12.3.10 Schrödinger Inc.
 - 12.3.10.1 Company Overview
 - 12.3.10.2 Product Portfolio
 - 12.3.10.3 Financials

List Of Tables

LIST OF TABLES

Table 1: Global: Chemoinformatics Market: Key Industry Highlights, 2023 and 2032

Table 2: Global: Chemoinformatics Market Forecast: Breakup by Application (in Million US\$), 2024-2032

Table 3: Global: Chemoinformatics Market Forecast: Breakup by Region (in Million US\$), 2024-2032

Table 4: Global: Chemoinformatics Market: Competitive Structure

Table 5: Global: Chemoinformatics Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Chemoinformatics Market: Major Drivers and Challenges

Figure 2: Global: Chemoinformatics Market: Sales Value (in Billion US\$), 2018-2023

Figure 3: Global: Chemoinformatics Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 4: Global: Chemoinformatics Market: Breakup by Application (in %), 2023

Figure 5: Global: Chemoinformatics Market: Breakup by Region (in %), 2023

Figure 6: Global: Chemoinformatics (Chemical Analysis) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 7: Global: Chemoinformatics (Chemical Analysis) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 8: Global: Chemoinformatics (Drug Discovery) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 9: Global: Chemoinformatics (Drug Discovery) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 10: Global: Chemoinformatics (Drug Validation) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 11: Global: Chemoinformatics (Drug Validation) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 12: Global: Chemoinformatics (Other Applications) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 13: Global: Chemoinformatics (Other Applications) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 14: North America: Chemoinformatics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 15: North America: Chemoinformatics Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 16: United States: Chemoinformatics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 17: United States: Chemoinformatics Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 18: Canada: Chemoinformatics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 19: Canada: Chemoinformatics Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 20: Asia-Pacific: Chemoinformatics Market: Sales Value (in Million US\$), 2018 &

2023

Figure 21: Asia-Pacific: Chemoinformatics Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 22: China: Chemoinformatics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 23: China: Chemoinformatics Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 24: Japan: Chemoinformatics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 25: Japan: Chemoinformatics Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 26: India: Chemoinformatics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 27: India: Chemoinformatics Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 28: South Korea: Chemoinformatics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 29: South Korea: Chemoinformatics Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 30: Australia: Chemoinformatics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 31: Australia: Chemoinformatics Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 32: Indonesia: Chemoinformatics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 33: Indonesia: Chemoinformatics Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 34: Others: Chemoinformatics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 35: Others: Chemoinformatics Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 36: Europe: Chemoinformatics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 37: Europe: Chemoinformatics Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 38: Germany: Chemoinformatics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 39: Germany: Chemoinformatics Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 40: France: Chemoinformatics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 41: France: Chemoinformatics Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 42: United Kingdom: Chemoinformatics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 43: United Kingdom: Chemoinformatics Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 44: Italy: Chemoinformatics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 45: Italy: Chemoinformatics Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 46: Spain: Chemoinformatics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 47: Spain: Chemoinformatics Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 48: Russia: Chemoinformatics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 49: Russia: Chemoinformatics Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 50: Others: Chemoinformatics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 51: Others: Chemoinformatics Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 52: Latin America: Chemoinformatics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 53: Latin America: Chemoinformatics Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 54: Brazil: Chemoinformatics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 55: Brazil: Chemoinformatics Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 56: Mexico: Chemoinformatics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 57: Mexico: Chemoinformatics Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 58: Others: Chemoinformatics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 59: Others: Chemoinformatics Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 60: Middle East and Africa: Chemoinformatics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 61: Middle East and Africa: Chemoinformatics Market: Breakup by Country (in %), 2023

Figure 62: Middle East and Africa: Chemoinformatics Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 63: Global: Chemoinformatics Industry: SWOT Analysis

Figure 64: Global: Chemoinformatics Industry: Value Chain Analysis

Figure 65: Global: Chemoinformatics Industry: Porter's Five Forces Analysis

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