Chemoinformatics Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

Market Report | 2023-11-02 | 143 pages | IMARC Group

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Report description:

The global chemoinformatics market size reached US$ 5.7 Billion in 2022. Looking forward, IMARC Group expects the market to reach US$ 9.7 Billion by 2028, exhibiting a growth rate (CAGR) of 9.3% during 2022-2028.

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 level from 2023-2028. 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 Systemes), ChemAxon, Inc., Eurofins CEREP SA (Eurofins Panlabs Inc.), Jubilant Biosys Inc., Molecular Discovery Ltd., OpenEye Scientific Software Inc. and Schrodinger 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?

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