

Global Drug Discovery Informatics Market Size study & Forecast, by Workflow (Discovery Informatics, Biocontent Management), by Services (Sequence Analysis Platforms, Molecular Modelling, Docking, Clinical Trial Data Management, Others) and Regional Analysis, 2023-2030

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Abstracts

Global Drug Discovery Informatics Market is valued at approximately USD 2.96 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 11.2% over the forecast period 2023-2030. Drug discovery informatics is a multidisciplinary field that leverages computational and informational technologies to streamline and enhance the drug discovery process. This includes information related to genomics, proteomics, and chemical structures. Drug discovery informatics encompasses various computational approaches such as bioinformatics, cheminformatics and systems biology, which aid in the identification of potential drug candidates and understanding their mechanisms of action. The Drug Discovery Informatics market is expanding because of factors such as high R&D expenditure by pharmaceutical and biotechnology companies, increasing technological advancement in drug discovery platforms and rising pre-clinical research and development.

The market is experiencing growth driven by factors such as substantial research and development investments from pharmaceutical and biotechnology companies dedicated to drug discovery and development. There is a notable surge in the technological advancements related to data mining and analytics. For instance, Automata Labs securing USD 50 million in February 2022 to automate laboratory research processes, and Strateos raising USD 56 million in July 2021 to enhance its SmartLab platform and deploy remote robotized automation for preclinical researchers globally. Additionally, in

March 2022, drug discovery startup ArrePath secured USD 20 million in seed funding, led by the Boehringer Ingelheim Venture Fund, Insight Partners, and Innospark Ventures. This funding will bolster ArrePath's machine learning-based drug discovery platform, specifically focusing on developing novel anti-infective drugs to address antimicrobial resistance. With a continuous uptick in research and development investments, the market is poised for growth throughout the forecast period. In addition, technological advancements in data mining and analytics and rising number of drug discovery activities are creating new opportunities for the market growth. However, the high cost of drug discovery informatics stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Drug Discovery Informatics Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 with largest market share owing to increasing investments in research and development (R&D) activities focused on drug discovery and the advancements in data mining and analytics technologies. Asia Pacific is expected to grow significantly during the forecast period, owing to factors such as rapid growth of pharmaceutical and biopharmaceutical industries and the expanding number of CROs in the region.

Major market player included in this report are:

PerkinElmer Inc.

Charles River

Infosys Limited

International Business Machines Corporation (IBM)

Tata Consultancy Services Limited

Amazon Web Services

Schrödinger LLC.

Boehringer Ingelheim International GmbH

CORE INFORMATICS

Informatics Matters Ltd.,

Recent Developments in the Market:

In February 2023, Insilico Medicine, a clinical-stage company specializing in end-to-end generative artificial intelligence (AI)-driven drug discovery, has attained FDA Orphan Drug Designation for a drug designed and discovered using generative AI, specifically targeted for idiopathic pulmonary fibrosis.

In February 2023, Evotec SE has extended its integrated multi-target drug discovery partnership with the data-driven biotech creation firm, Related Sciences. The collaboration is set to expand the joint portfolio of drug development candidates until 2030, harnessing Evotec's exceptional capabilities throughout the entire research and development continuum.

Global Drug Discovery Informatics Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Workflow, Services, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in

recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Workflow:

Discovery Informatics

Biocontent Management

By Services:

Sequence Analysis Platforms

Molecular Modelling

Docking

Clinical Trial Data Management

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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