

Proteomics Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Product (Reagents & Assays, Instruments, Software & Services), By Technology (Spectroscopy, Microarray instruments, Chromatography, X-ray crystallography, Protein Microarrays, Electrophoresis), By Application (Clinical Diagnostic, Drug Discovery, Diagnostic Biomarker Discovery, Others), By Type (Expression, Functional, Structural, Computational), By End User (Pharmaceutical and Biotechnology Companies, Research Institutes, CROs), By Region and Competition, 2020-2030F

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Report description:

Market Overview

Global Proteomics Market was valued at USD 24.11 Billion in 2024 and is expected to reach USD 45.87 Billion by 2030 with a CAGR of 11.32% during the forecast period. Proteomics, the study of proteomes on a large scale, is a crucial field. Proteomics is a powerful technique utilized for the identification of disease-associated proteins and the investigation of their production, function, and structure. It plays a crucial role in the discovery of prognostic markers and the diagnosis of various diseases, including cancer, infectious illnesses, malaria, and tuberculosis. Moreover, in the pharmaceutical sector, proteomics is extensively employed to elucidate the mechanisms of drug action and toxicity. Additionally, it is commonly applied in the identification and validation of biomarkers. The proteome is partially influenced by the underlying transcriptome, which encompasses all messenger RNA

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molecules in an organism. However, protein activity is influenced by various factors beyond gene expression levels. Proteomics has a wide range of applications. The rising prevalence of chronic and infectious diseases drives proteomics industry growth. WHO predicts that there will be over 35 million new cancer cases by 2050, a 77% surge from the approximately 20 million cases estimated in 2022. Moreover, the prevalence of disease increases the demand for pathogenesis research and advanced diagnostics and therapeutics. For instance, according to research published in Nature Communications in July 2024, scientists used a proteomics-based approach to identify effectors secreted by *Rickettsia* spp, thereby understanding the host-pathogen interface.

Key Market Drivers

Increase In the Number of Patients Suffering from Cancer

The increasing incidence of cancer and other disorders is another crucial factor contributing to the growth of the global proteomics market. With the rising number of cancer cases worldwide, there is a pressing need for effective treatment options. This has resulted in extensive research and development in the field of life sciences, leading to significant advancements and discoveries. One major breakthrough in this field is the characterization of human proteins, which has revolutionized the field of biomedicine. By studying gene expression at the proteome level, researchers can gain deeper insights into the intricate mechanisms underlying diseases like cancer. This constant research and development in the field of proteomics are anticipated to fuel the market's growth to a great extent. Through the application of proteomics techniques, researchers are able to extract highly significant biological information that greatly enhances our understanding of cancer biology. This knowledge can ultimately benefit patients by improving diagnosis, treatment, and overall patient care.

The continuous advancements in proteomics research not only help in identifying how proteins respond in dynamic environments, such as cancer patients, but also pave the way for the development of personalized medicine. By tailoring treatment plans based on an individual's unique proteomic profile, healthcare providers can maximize the effectiveness of therapies and minimize side effects. The increasing prevalence of cancer, along with the constant progress in proteomics research, holds immense potential for the global proteomics market. The ability to extract valuable insights from the proteome level opens up new opportunities for advancements in diagnosis, treatment, and personalized medicine, ultimately benefiting patients worldwide.

Key Market Challenges

Expensive Instruments

The need for a longer period of time in laboratories increases the cost of treatment. This is primarily due to the expensive instruments and reagents used in the process, which limits the use of this technology in developing nations. One of the most commonly used methods in proteomics is X-ray crystallography. This method involves protein expression, gene cloning, protein crystallization, and purification. However, these procedures are time-consuming, resulting in higher costs. As a result, the adoption of these procedures in developing nations is limited. This presents a significant challenge to the growth of the market and will continue to hinder its progress in the long run.

To overcome this obstacle and promote market growth in developing nations, it is crucial to expand the accessibility and affordability of these technologies. By doing so, more laboratories and research institutions in these regions will be able to utilize these advanced techniques to study proteins and contribute to scientific advancements. This, in turn, can lead to improved healthcare solutions, better understanding of diseases, and the development of targeted therapies.

Furthermore, addressing the cost issue can also encourage collaborations between developed and developing nations in the field of proteomics. By sharing resources, knowledge, and expertise, it becomes possible to overcome the financial limitations and accelerate the progress of research and innovation. This collaborative approach can create a more inclusive and globally connected scientific community, where breakthroughs in proteomics are not limited by economic constraints.

The longer time required and higher costs associated with proteomic research in laboratories pose challenges to its widespread adoption in developing nations. However, by expanding the accessibility, affordability, and fostering international collaborations, we can overcome these obstacles and promote market growth in these regions. This will not only advance scientific knowledge but also contribute to improving healthcare outcomes for people around the world.

Key Market Trends

Emergence Of Label-Free Quantification Techniques

The emergence of label-free quantification techniques is a major trend in the market. The global proteomics market has witnessed

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notable trends, including the rise of label-free quantification techniques. Label-free quantification, a revolutionary approach in proteomics, utilizes mass spectrometry-based methods to accurately measure proteins without the need for chemical or isotopic labels. By eliminating the use of labels, this technique offers enhanced accuracy, reproducibility, and cost-effectiveness, making it an attractive option for researchers. Moreover, label-free quantification enables the analysis of larger sample sizes, allowing for more comprehensive proteomic studies. Additionally, this approach avoids potential artifacts that may arise from labeling interference, ensuring the integrity of the protein quantification results. As the demand for high-throughput, reliable, and cost-effective proteomic analysis continues to grow, the adoption of label-free quantification techniques is expected to increase rapidly in the coming years, revolutionizing the field of proteomics and advancing our understanding of complex biological systems.

Key Market Players

- Illumina, Inc.
- Thermo Fisher Scientific Inc.
- Bruker Corporation
- Promega Corporation
- Agilent Technologies Inc.
- Merck KGaA
- Bio-Rad Laboratories, Inc.
- Danaher Corporation
- F Hoffmann-La Roche Ltd.
- Luminex Corporation

Report Scope:

In this report, the Global Proteomics Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

-□Proteomics Market, By Product:

- o Reagents & Assays
- o Instruments
- o Software & Services

-□Proteomics Market, By Technology:

- o Spectroscopy
- o Microarray instruments
- o Chromatography
- o X-ray crystallography
- o Protein Microarrays
- o Electrophoresis

-□Proteomics Market, By Application:

- o Clinical Diagnostic
- o Drug Discovery
- o Diagnostic Biomarker Discovery
- o Others

-□Proteomics Market, By Type:

- o Expression
- o Functional
- o Structural
- o Computational

-□Proteomics Market, By End User:

- o Pharmaceutical and Biotechnology Companies
- o Research Institutes

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- o CROs
- Proteomics Market, By Region:

- o North America
 - United States
 - Canada
 - Mexico
- o Europe
 - France
 - United Kingdom
 - Italy
 - Germany
 - Spain
- o Asia-Pacific
 - China
 - India
 - Japan
 - Australia
 - South Korea
- o South America
 - Brazil
 - Argentina
 - Colombia
- o Middle East & Africa
 - South Africa
 - Saudi Arabia
 - UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Proteomics Market.

Available Customizations:

Global Proteomics market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

- Detailed analysis and profiling of additional market players (up to five).

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