

Increasing Investment and Technological Advancements Drive Growth in High Throughput Screening Market

Discover the latest insights driving growth in the global high throughput screening market, including advancements in automation, robotics & medicine

VANCOUVER, BC, CANADA, June 28, 2024 /EINPresswire.com/ -- The global [high throughput screening market](#) size was USD 23.20 Billion in 2022 and is expected to register a revenue CAGR of 3.2% during the forecast period. The global high throughput screening market is experiencing significant revenue growth, driven by increased funding for research and development (R&D), regulatory support for innovative approaches, and the growing need for diverse compound libraries. Key factors contributing to this growth include advancements in automation and robotics, a focus on personalized medicine, and improved efficiency in drug discovery.



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Automated systems are revolutionizing the screening process, allowing for rapid and efficient analysis of large compound libraries. This accelerates drug discovery and research efforts, making these processes more cost-effective and reliable. Robotics play a crucial role in precise liquid handling, sample preparation, and data analysis, ensuring reproducibility and minimizing errors.

The increased throughput, accuracy, and scalability offered by these technologies reduce operational costs and enhance overall efficiency in the pharmaceutical and biotechnology industries. As high throughput screening becomes more automated, it enables the exploration of complex biological pathways and diverse compound libraries, fostering innovation. The demand for sophisticated, integrated robotic systems in high throughput screening is expected to rise, empowering researchers and driving market revenue growth.

However, the high capital investment required for high throughput screening technologies is a significant restraint on market growth. The substantial initial costs for acquiring state-of-the-art screening equipment, automation systems, and advanced technologies can be a barrier for smaller firms and may strain the budgets of pharmaceutical and biotechnology companies. Additionally, ongoing expenses for maintenance, personnel training, and technology upgrades further add to the financial burden.

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Market Segment Insights

Technology Insights: The global high throughput screening market is segmented into cell-based assays and ultra-high throughput screening based on technology. The cell-based assays segment accounted for the largest market share in 2022. Advancements in 3D cell culture, significant investments in drug discovery and development, and physiological relevance are major factors driving revenue growth in this segment.

Cell-based assays provide a more physiologically relevant environment compared to conventional biochemical assays. They enable researchers and drug developers to study cellular responses in a natural context, offering better insights into how potential drugs interact with living cells. The integration of automation and high throughput technologies has streamlined the process of conducting cell-based assays, making them more efficient for drug discovery projects.

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Application Insights: The global high throughput screening market is segmented into drug discovery programs, biochemical screening, chemical biology programs, and cell & organ-based screening based on application. The drug discovery programs segment accounted for the largest market share in 2022. The rising need for new therapeutics, the expansion of target-based drug discovery, and collaborations and partnerships aimed at fueling discovery programs are driving revenue growth in this segment.

Increasing demand for personalized medicine and precision therapeutics, along with an emphasis on early-stage drug development, are key factors contributing to this growth. High throughput screening is crucial in screening compounds for their potential efficacy in specific patient populations, particularly in the early stages of drug development. Identifying promising lead compounds early allows researchers to focus resources on the most viable candidates and accelerate the development timeline.

End-Use Insights: The global high throughput screening market is segmented into pharmaceutical and biotechnology firms and academia and research institutes based on end-use. The pharmaceutical and biotechnology firms segment accounted for the largest market share in 2022. The increasing complexity of drug targets, advancements in automation and robotics, and efficiency in drug discovery are major factors driving revenue growth in this segment.

The trend towards personalized medicine, where treatments are tailored to individual patient characteristics, has increased the demand for high throughput screening. This technology allows researchers to systematically screen compounds against complex targets, facilitating the identification of compounds with therapeutic potential. Shared resources, expertise, and compound libraries are gaining traction, significantly contributing to the broader adoption of high throughput screening in the industry.

High Throughput Screening Top Companies and Competitive Landscape

The global high throughput screening market is fairly fragmented with many large and medium-sized players accounting for majority of market revenue. Major players are deploying various strategies, entering into mergers & acquisitions, strategic agreements & contracts, developing, testing, and introducing more effective high throughput screening solutions.

Some major players included in the global high throughput screening market report are:

Agilent Technologies Inc.

Aurora Biomed Inc.

Danaher Corporation

Bio-Rad Laboratories

Perkin Elmer

Merck KGaA Group

Tecan Group

Luminex Corporation

Axxam S.P.A

Hamilton Company

High Throughput Screening Latest Industry News

On 28 February 2023, Beckman Coulter Life Sciences, which is U.S.-based leading provider of laboratory workflow automation and innovation solutions announced strategic collaboration with life science analytical technologies company Sciex to provide comprehensive workflows for high-throughput screening, and synthetic biology This strategic move is intended to boost operational capabilities by deploying cutting-edge technologies, enhance early stage drug discovery, and eventually boost business revenue.

High Throughput Screening Market Segment Analysis

For the purpose of this report, Emergen Research has segmented global high throughput screening market on the basis of technology, application, end-use, and region:

Technology Outlook (Revenue, USD Billion; 2019-2032)

Cell-based Assays

Ultra High Throughput Screening

Application Outlook (Revenue, USD Billion; 2019-2032)

Drug discovery programs

Biochemical screening

Chemical biology programs

Cell & organ-based screening

End-Use Outlook (Revenue, USD Billion; 2019-2032)

Pharmaceutical and Biotechnology Firms

Academia and Research Institutes

Regional Outlook (Revenue, USD Billion; 2019–2032)

North America

U.S.

Canada

Europe

Germany

France

U.K.

Italy

Spain

Benelux

Russia

Rest of Europe

Asia Pacific

China

Japan

South Korea

India

ASEAN Countries

Oceania

Rest of APAC

Latin America

Brazil

Mexico

Rest of LATAM

Middle East & Africa

GCC Countries

Israel

Turkey

South Africa

Rest of MEA

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Animal Vaccines Market

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