

# **Preclinical Imaging Market Size, Trends, Analysis, and Outlook By Product (CT Imaging, MRI Imaging, PET/SPECT Imaging, Multi-modal Imaging, Optical Imaging, Ultrasound Imaging, Photoacoustic Imaging, Reagents, Services), By Application (Research and Development, Drug Discovery), By End-User (Pharma and Biotech Companies, Research Institutes, Others), by Country, Segment, and Companies, 2024-2032**

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## **Abstracts**

The global Preclinical Imaging market size is poised to register 6.8% growth from 2024 to 2032, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global Preclinical Imaging market across By Product (CT Imaging, MRI Imaging, PET/SPECT Imaging, Multi-modal Imaging, Optical Imaging, Ultrasound Imaging, Photoacoustic Imaging, Reagents, Services), By Application (Research and Development, Drug Discovery), By End-User (Pharma and Biotech Companies, Research Institutes, Others)

The future of the preclinical imaging market is influenced by advancements in imaging modalities, increasing demand for non-invasive research tools, and growing applications in drug discovery, development, and translational research. Preclinical imaging encompasses a variety of imaging techniques and modalities, including magnetic resonance imaging (MRI), positron emission tomography (PET), computed tomography (CT), bioluminescence imaging (BLI), fluorescence imaging (FLI), and ultrasound imaging, used by researchers and pharmaceutical companies to visualize and quantify biological processes, disease progression, and treatment responses in small animal models for preclinical studies. With the rise of translational research, precision

medicine, and targeted therapies, there is a growing need for preclinical imaging solutions that offer high spatial and temporal resolution, multi-modality imaging capabilities, and quantitative analysis tools to support the development and evaluation of novel therapeutics and diagnostic agents across diverse therapeutic areas and research applications. Further, technological innovations such as molecular imaging probes, image-guided interventions, and 3D image reconstruction techniques are driving the development of next-generation preclinical imaging platforms with improved sensitivity, specificity, and translational value for drug discovery and development pipelines. Over the forecast period to 2030, expanding applications in oncology, neurology, and cardiology research, coupled with increasing adoption of multi-modality imaging approaches and preclinical imaging contracts, are expected to drive market growth and innovation, enabling pharmaceutical companies, contract research organizations (CROs), and academic institutions to accelerate drug development timelines, reduce attrition rates, and improve the success rate of candidate drugs in clinical trials.

### Preclinical Imaging Market Drivers, Trends, Opportunities, and Growth Opportunities

This comprehensive study discusses the latest trends and the most pressing challenges for industry players and investors. The Preclinical Imaging market research analyses the global market trends, key drivers, challenges, and opportunities in the industry. In addition, the latest Future of Preclinical Imaging survey report provides the market size outlook across types, applications, and other segments across the world and regions. It provides data-driven insights and actionable recommendations for companies in the Preclinical Imaging industry.

### Key market trends defining the global Preclinical Imaging demand in 2024 and Beyond

The industry continues to remain an attractive hub for opportunities for both domestic and global vendors. As the market evolves, factors such as emerging market dynamics, demand from end-user sectors, a growing patient base, changes in consumption patterns, and widening distribution channels continue to play a major role.

### Preclinical Imaging Market Segmentation- Industry Share, Market Size, and Outlook to 2032

The Preclinical Imaging industry comprises a wide range of segments and sub-segments. The rising demand for these product types and applications is supporting companies to increase their investment levels across niche segments. Accordingly,

leading companies plan to generate a large share of their future revenue growth from expansion into these niche segments. The report presents the market size outlook across segments to support Preclinical Imaging companies scaling up production in these sub-segments with a focus on expanding into emerging countries.

Key strategies adopted by companies within the Preclinical Imaging industry

Leading Preclinical Imaging companies are boosting investments to capitalize on untapped potential and future possibilities across niche market segments and surging demand conditions in key regions. Further, companies are leveraging advanced technologies to unlock opportunities and achieve operational excellence. The report provides key strategies opted for by the top 10 Preclinical Imaging companies.

Preclinical Imaging Market Study- Strategic Analysis Review

The Preclinical Imaging market research report dives deep into the qualitative factors shaping the market, empowering you to make informed decisions-

**Industry Dynamics:** Porter's Five Forces analysis to understand bargaining power, competitive rivalry, and threats that impact long-term strategy formulation.

**Strategic Insights:** Provides valuable perspectives on key players and their approaches based on comprehensive strategy analysis.

**Internal Strengths and Weaknesses:** Develop targeted strategies to leverage strengths, address weaknesses, and capitalize on market opportunities.

**Future Possibilities:** Prepare for diverse outcomes with in-depth scenario analysis. Explore potential market disruptions, technology advancements, and economic changes.

Preclinical Imaging Market Size Outlook- Historic and Forecast Revenue in Three Cases

The Preclinical Imaging industry report provides a detailed analysis and outlook of revenue generated by companies from 2018 to 2023. Further, with actual data for 2023, the report forecasts the market size outlook from 2024 to 2032 in three case scenarios-

low case, reference case, and high case scenarios.

## Preclinical Imaging Country Analysis and Revenue Outlook to 2032

The report analyses 22 countries worldwide including the key driving forces and market size outlook from 2021 to 2032. In addition, region analysis across Asia Pacific, Europe, the Middle East, Africa, North America, and South America is included in the study. For each of the six regions, the market size outlook by segments is forecast for 2032.

### North America Preclinical Imaging Market Size Outlook- Companies plan for focused investments in a changing environment

The US continues to remain the market leader in North America, driven by a large consumer base, the presence of well-established providers, and a strong healthcare infrastructure. Leading companies focus on new product launches in the changing environment. The US healthcare expenditure is expected to grow to \$4.8 trillion in 2024 (around 3.7% growth in 2024), potentially driving demand for various Preclinical Imaging market segments. Similarly, Strong market demand is encouraging Canadian Preclinical Imaging companies to invest in niche segments. Further, as Mexico continues to strengthen its relations and invest in technological advancements, the Mexico Preclinical Imaging market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

### Europe Preclinical Imaging Market Size Outlook-Companies investing in assessing consumers, categories, competitors, and capabilities

The German industry remains the major market for companies in the European Preclinical Imaging industry with consumers in Germany, France, the UK, Spain, Italy, and others anticipated to register a steady demand throughout the forecast period, driving the overall market prospects. In addition, the proactive approach of vendors in identifying and leveraging new growth prospects positions the European Preclinical Imaging market for an upward trajectory, fostering both domestic and international interest. Leading brands operating in the industry are emphasizing effective marketing strategies, innovative product offerings, and a keen understanding of consumer preferences.

### Asia Pacific Preclinical Imaging Market Size Outlook- an attractive hub for opportunities for both local and global companies

The increasing prevalence of indications, robust healthcare expenditure, and increasing investments in healthcare infrastructure drive the demand for Preclinical Imaging in Asia Pacific. In particular, China, India, and South East Asian Preclinical Imaging markets present a compelling outlook for 2032, acting as a magnet for both domestic and multinational vendors seeking growth opportunities. Similarly, with a burgeoning population and a rising middle class, India offers a vast consumer market. Japanese and Korean companies are quickly aligning their strategies to navigate changes, explore new markets, and enhance their competitive edge. Our report utilizes in-depth interviews with industry experts and comprehensive data analysis to provide a comprehensive outlook of 6 major countries in the APAC region.

**Latin America Preclinical Imaging Market Size Outlook-** Continued urbanization and rising income levels

Rising income levels contribute to greater purchasing power among consumers, spurring consumption and creating opportunities for market expansion. Continued urbanization and rising income levels are expected to sustainably drive consumption growth in the medium to long term.

**Middle East and Africa Preclinical Imaging Market Size Outlook-** continues its upward trajectory across segments

Robust demand from Middle Eastern countries including Saudi Arabia, the UAE, Qatar, Kuwait, and other GCC countries supports the overall Middle East Preclinical Imaging market potential. Fueled by increasing healthcare expenditure of individuals, growing population, and high prevalence across a few markets drives the demand for Preclinical Imaging.

**Preclinical Imaging Market Company Profiles**

The global Preclinical Imaging market is characterized by intense competitive conditions with leading companies opting for aggressive marketing to gain market shares. The report presents business descriptions, SWOT analysis, growth strategies, and financial profiles. Leading companies included in the study are Agilent Technologies Inc, Bruker Corp, General Electric Company, Mediso Ltd, MILabs B.V., Molecubes NV, MR Solutions, PerkinElmer Inc, Siemens AG, TriFoil Imaging Inc, VisualSonics Inc.

**Recent Preclinical Imaging Market Developments**

The global Preclinical Imaging market study presents recent market news and developments including new product launches, mergers, acquisitions, expansions, product approvals, and other updates in the industry.

## Preclinical Imaging Market Report Scope

Parameters: Revenue, Volume Price

Study Period: 2023 (Base Year); 2018- 2023 (Historic Period); 2024- 2032 (Forecast Period)

Currency: USD; (Upon request, can be provided in Euro, JPY, GBP, and other Local Currency)

## Qualitative Analysis

Pricing Analysis

Value Chain Analysis

SWOT Profile

Market Dynamics- Trends, Drivers, Challenges

Porter's Five Forces Analysis

Macroeconomic Impact Analysis

Case Scenarios- Low, Base, High

## Market Segmentation:

By Product

CT Imaging

MRI Imaging

PET/SPECT Imaging

Multi-modal Imaging

Optical Imaging

Ultrasound Imaging

Photoacoustic Imaging

Reagents

Services

By Application

Research and Development

Drug Discovery

By End-User

Pharma and Biotech Companies

Research Institutes

Others

Geographical Segmentation:

North America (3 markets)

Europe (6 markets)

Asia Pacific (6 markets)

Latin America (3 markets)

Middle East Africa (5 markets)

## Companies

Agilent Technologies Inc

Bruker Corp

General Electric Company

Mediso Ltd

MILabs B.V.

Molecubes NV

MR Solutions

PerkinElmer Inc

Siemens AG

TriFoil Imaging Inc

VisualSonics Inc

Formats Available: Excel, PDF, and PPT



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Multi-modal Imaging

Optical Imaging

Ultrasound Imaging

Photoacoustic Imaging

Reagents

Services

By Application

Research and Development

Drug Discovery

By End-User

Pharma and Biotech Companies

Research Institutes

Others

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General Electric Company

Mediso Ltd

MILabs B.V.

Molecubes NV

MR Solutions

PerkinElmer Inc

Siemens AG

TriFoil Imaging Inc

VisualSonics Inc.

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