

# **Global Small Animal Imaging (In-Vivo) Market Size Study, by Technology (Micro Magnetic Resonance Imaging, Optical Imaging, Bioluminescence Imaging, Cerenkov Luminescence Imaging, Fluorescence Imaging, Nuclear Imaging, Micro Positron Emission Tomography (Micro PET), Micro Single Photon Emission Computerized Tomography (Micro SPECT), Other Imaging Modalities, Micro Computerized Tomography Imaging, Micro Ultrasound Imaging), by Application (Monitoring Drug Treatment Response, Biodistribution Studies, Cancer Cell Detection, Biomarkers, Longitudinal Studies, Epigenetics), and Regional Forecasts 2022-2032**

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## **Abstracts**

The Global Small Animal Imaging (In-Vivo) Market is valued at approximately USD 2.73 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 9.10% over the forecast period 2024-2032. Small Animal Imaging (In-Vivo) involves the use of sophisticated imaging techniques to visualize and study live small animals, such as rodents, in their natural, living state. This approach enables researchers to track physiological and biochemical processes in real-time without sacrificing the animals. By employing various imaging modalities—such as MRI, PET, CT, and optical imaging—scientists can gain valuable insights into disease progression, treatment efficacy, and biological mechanisms. This non-invasive method is essential for advancing preclinical research and drug development, offering a detailed view of the

effects of medical interventions and understanding complex biological systems.

The market's growth is driven by the increasing number of pre-clinical research studies, rising investments by Contract Research Organizations (CROs) in research activities, and the growing application of multi-functional pre-clinical imaging. Additionally, technological advancements, such as high-resolution multimodality MRI, are positively impacting the market. However, stringent regulatory impositions and inadequate reimbursement scenarios pose challenges to the market growth. Nevertheless, the commercialization of cost-efficient devices is expected to ease these restraints and fuel market growth, especially across developing regions.

The key regions considered in the study include Asia Pacific, North America, Europe, Latin America, and the Middle East and Africa. North America dominates the market due to the adoption of advanced technologies, healthcare awareness, and favorable reimbursement policies, attributed to heavy investments and the affordability of advanced small animal in-vivo imaging devices, such as micro-Photoacoustic tomography (Micro-PAT), in pre-clinical research. On the other hand, the Asia-Pacific market is projected to grow at a over the forecast period, driven by the untapped market potential and opportunities for small animal imaging device manufacturers.

Major market players included in this report are:

FUJIFILM Holdings Corporation  
Aspect Imaging Ltd.  
Miltenyi Biotech GmbH  
Thermo Fisher Scientific  
Life Technologies Corporation  
PerkinElmer, Inc.  
Mediso Medical Imaging Systems  
Promega Corporation  
Siemens AG  
Bruker Corporation  
Agilent Technologies, Inc.  
MR Solutions Ltd.  
Biospace Lab  
NORDIC BIOSCIENCE  
Sofie Biosciences

The detailed segments and sub-segment of the market are explained below:  
By Technology:

Micro Magnetic Resonance Imaging  
Optical Imaging  
Nuclear Imaging  
Other Imaging Modalities

By Application:

Monitoring Drug Treatment Response  
Biodistribution Studies  
Cancer Cell Detection  
Biomarkers  
Longitudinal Studies  
Epigenetics

By Region:

North America  
U.S.  
Canada

Germany  
France  
UK  
Spain  
Italy  
Rest of Europe

Asia-Pacific  
China  
Japan  
India  
South Korea  
Australia  
Rest of Asia-Pacific

Latin America  
Brazil  
Mexico  
Rest of Latin America

Middle East and Africa

Saudi Arabia  
South Africa  
Rest of Middle East and Africa

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

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