

Preclinical In-vivo Imaging Market : Industry Analysis & Opportunities-DataM Intelligence

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Market Overview

Preclinical in-vivo imaging is used in live animal research for drug improvement. Preclinical imaging is

also used to reveal the treatment response for the early indicators of efficacy. The presence of technological development of in vivo imaging permits studying the disease at the molecular degree in a quantitative way.



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Market Dynamics

The worldwide preclinical in-vivo imaging marketplace is driven through technological advancements in imaging modalities, growing demand for non-invasive small animal imaging techniques, upward push in preclinical research

funding by means of both non-public and public corporations, and increasing prevalence of chronic sicknesses.

Growing incidence of continual diseases along with cancer, cardiovascular, rheumatoid arthritis, neurological problems, and different illnesses are expected to boost the market over the duration of the forecast. For example, the WHO has stated that cancer is the second main reason for dying globally and is answerable for nine.6 million deaths in 2018 and global, about 1 in 6 deaths is best because of cancer. Also, around 70% of deaths from most cancers occur in low and center-income nations. WHO said that around 17.9 million humans die every 12 months



with cardiovascular sicknesses, and globally, it accounts for 31% of deaths.

The presence of technological traits in imaging is anticipated to force the market. For instance, "Aspect's M2," a preclinical imaging product advanced through Aspect imaging, is used for drug improvement. Also, newer technologies like photoacoustic tomography and confocal laser endomicroscopy lend the capability to perceive crucial and surprisingly unique biomarker data for oncology, immunology, and neurology strategies. These methods are expected to beautify preclinical and translational studies drastically.

The presence of revolutionary product launches related to preclinical in-vivo imaging is predicted to pressure the marketplace. For instance, in 2018, next-generation SPECT cameras with cadmium zinc telluride (CZT) detectors can lessen the patient radiation dose and shorten the examination time.

Increasing funding for preclinical studies is likewise predicted to boost the marketplace. For instance, in 2017, the Alzheimer's Drug Discovery Foundation (ADDF) familiar Letters of Intent stuffed the translational investment hole among studies and later-stage drug development via funding preclinical drug discovery. Also, it has provided an investment of as much as USD 5 million for preclinical examine. In 2015 the Deutsches Zentrum fur Herz-Kreislaufforschung e.V. (DZHK) has provided Euro 6 million for the preclinical studies initiatives.

However, with the high setup and operational charges of preclinical imaging modalities, stringent guidelines are probably to impede the marketplace.

The excessive product value decreases the adoption costs in academic institutions. Also, the stringent regulations which might be placed on animal checking out because of the rules enforced through companies, which protect animal rights are impeding the market. For example, in Europe, animals trying out for cosmetics is banned. Therefore, the adoption of numerous alternative methods like micro-dosing, virtual checking out of the latest tablets, and the development of computerized databases for checking out purposes are growing swiftly.

Market Segmentation

By Modality

- Optical Imaging Systems
- Preclinical Nuclear Imaging Systems
- Micro-MRI Systems
- Micro-Ultrasound Systems
- Micro-CT Systems
- Preclinical Photoacoustic Imaging Systems
- Preclinical Magnetic Particle Imaging (MPI) Systems

By Reagent

- Preclinical Optical Imaging Reagents
- Preclinical Nuclear Imaging Reagents

- Preclinical MRI Contrast Agents
- Preclinical Ultrasound Contrast Agents
- Preclinical CT contrast agents

By Application

- Research and development
- Drug discovery

By Distribution channel

- Pharmaceutical companies
- Biotechnology companies
- Research institutes
- Others

By Region

- North America
- Europe
- South America
- Asia-Pacific
- Middle East and Africa

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Competitive Landscape

The key players operating in the global preclinical in-vivo imaging market are Bruker Corporation, Siemens A.G., TriFoil Imaging, PerkinElmer, VisualSonics Inc. (Fujifilm), MILabs B.V., Mediso Ltd., and Agilent Technologies.

The key players are adopting various strategies such as product launches, mergers & acquisitions, partnerships, and collaborations, which are contributing to the growth of the preclinical in-vivo imaging market globally. For instance,

On June 8, 2018, MILabs launched the E-Class line of high-performance, economical PET, SPECT, and CT systems.

On June 12, 2018, Bruker launched the SKYSCAN 2214, a multiscale X-ray nano-CT system with a unique X-ray source with outstanding precision.

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