

Small Animal Imaging (In-Vivo) Market by Modality (Optical Imaging, PET, SPECT, CT, MRI, ultrasound, Photoacoustic Imaging, Magnetic Particle Imaging), Reagent (Optical Imaging Reagents, Contrast Agents, PET Tracers, SPECT Probes) - Global forecast to 2021

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Abstracts

The global small animal imaging market is estimated to grow at a high CAGR of 6.2% during 2016-2021; and is projected to be valued at USD 910.4 million by 2021. Market growth in the global small animal imaging market is mainly driven by factors such as technological advancements in the field of molecular imaging, increasing market demand for non-invasive small animal imaging techniques, and growing number of public-private initiatives and funding to support preclinical researches. In addition, emerging markets (such as China and India) are offering new growth opportunities for small animal imaging market players.

Although the mature markets (North America and Europe) held large share of small animal imaging market in 2015; Asia-Pacific region is poised to be the fastest growing region during the next five years. The large market share of the North American region can be attributed to the robust R&D infrastructure for life science researches, fast adoption of novel molecular imaging technologies, significant presence of pharmaceutical and biotechnology companies, and increasing preference of end users for multimodality systems. However, continued outsourcing of in-house preclinical studies to emerging countries by U.S.-based pharmaceutical and biotechnology companies and reduced R&D expenditure by the Canadian government to support research studies are negatively affecting the growth of the small animal imaging market in this region.

The small animal imaging market is fairly competitive, with a large number of global and

local manufacturers that offer innovative small animal imaging solutions. As of 2015, PerkinElmer, Inc. (U.S.), Bruker Corporation (U.S.), and FUJIFILM Holding Corporation (Japan) were the top three players in the small animal imaging market. These companies together accounted for a share of 63.2% of the global small animal imaging market in 2015. New product launches and product enhancements; geographic expansions; and partnerships, agreements, and collaborations are the major strategies adopted by most of the market players to achieve growth in the small animal imaging market.

Report Objective:

This report studies small animal imaging market based on modality and reagents; utilized for the assessment of anatomical, physiological, and functional parameters at molecular and cellular levels in live animal models. These imaging systems and reagents are applied to visualize living animals during preclinical research studies in order to assess the safety and efficacy of novel drug procedures or other medical treatments for human applications.

The report also studies, the factors (such as drivers, restraints, opportunities, and challenges) which affect the market growth in positive and negative manner. It analyzes opportunities and challenges in the market for stakeholders and provides details of the competitive landscape for market leaders. Furthermore, the small animal imaging market report analyzes the micromarkets with respect to their individual growth trends, future prospects, and contributions to the total market.

Detailed Segmentation:

Small Animal Imaging Market, by Modality

Optical Imaging Systems

Bioluminescence/Fluorescence Imaging Systems

Standalone Fluorescence Imaging Systems

Optical + X-Ray/Optical + CT

Nuclear Imaging Systems

PET Systems

SPECT Systems

Trimodality (SPECT/PET/CT) Systems

MRI Systems

Ultrasound Systems

CT Systems

Photo-acoustic Imaging Systems

Magnetic Particle Imaging (MPI) Systems

Small Animal Imaging Market, by Reagents

Optical Imaging Reagents

Bioluminescent Imaging Reagents

Fluorescent Imaging Reagents

Nuclear Imaging Reagents

PET Tracers

SPECT Probes

MRI Contrast Agents

Gadolinium-based Preclinical MRI Contrast Agents

Iron-based Preclinical MRI Contrast Agents

Manganese-based Preclinical MRI Contrast Agents

Ultrasound Contrast Agents

CT Contrast Agents

Iodine-based Preclinical CT Contrast Agents

Barium-based Preclinical CT Contrast Agents

Gold Nanoparticles

Gastrografin-based Preclinical CT Contrast Agents

Small Animal Imaging Market, by Region

North America

Europe

Asia-Pacific

Rest of the World

Key Target Audience:

Preclinical Imaging System Manufacturers, Suppliers, and Imaging Software Providers

Pharmaceutical and Biotechnology Companies

Small Animal Imaging Reagent Manufacturers and Suppliers

Contract Research Organizations (CROs)

Research and Development (R&D) Companies

Government Research Laboratories

Independent Research Laboratories

Government and Independent Regulatory Authorities

Market Research and Consulting Service Providers

Medical Research Laboratories

Academic Medical Institutes and Universities

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