

Global Optical Preclinical Imaging Market Size study & Forecast, by Modality(Bioluminescence & Fluorescence Imaging Systems, Standalone Fluorescence Imaging Systems, Optical + X-ray & Optical + CT) by End User(Pharma & Biotech Companies, Academic & Government Research Institutes, Contract Research Organizations) and Regional Analysis, 2023-2030

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Abstracts

Global Optical Preclinical Imaging Market is valued at approximately USD 542.94 million in 2022 and is anticipated to grow with a healthy growth rate of more than 5.2% over the forecast period 2023-2030. Optical preclinical imaging is a non-invasive imaging technique that uses light to visualize and monitor biological processes in living organisms at a preclinical stage, typically in small animal models. It allows researchers to study the molecular and cellular level interactions within living organisms, such as tracking the growth of tumors, assessing metabolic processes, and studying gene expression. Optical preclinical imaging has numerous applications in biomedical research, including drug development, disease modeling, and understanding the underlying mechanisms of various biological processes. The technique is relatively low cost, has high sensitivity, and allows for longitudinal studies over extended periods, making it a valuable tool for preclinical research. The Optical Preclinical Imaging market is expanding because of factors such as increasing funding for preclinical research by both private and public organizations and increase in demand for noninvasive small animal imaging techniques.

Pharmaceutical companies are increasingly investing in preclinical research to develop



new drugs and therapies, and optical preclinical imaging has emerged as a powerful tool for this purpose. These imaging techniques enable researchers to visualize and track the molecular and cellular events that occur during disease progression, drug response, and toxicity, providing valuable insights into the safety and efficacy of potential drugs. According to Statista, total global spending on pharmaceutical research and development in year 2020 stood at USD 207 billion which increased to USD 238 billion in year 2022 and it is projected to reach USD 285 billion by year 2028. Thus, rising spending on pharmaceutical research and development activities is driving the market growth. In addition, the increasing prevalence of chronic diseases such as cancer, cardiovascular diseases, and neurological disorders has also driven the demand for optical preclinical imaging. These imaging techniques are used to study the mechanisms of these diseases and to develop new therapies to treat them. Moreover, technological advancements in molecular imaging and rising clinical research and drug discovery activities are creating lucrative opportunity to the market growth. However, the high cost of optical preclinical Imaging and stringent regulations for preclinical research stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Optical Preclinical Imaging Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to the dominance of branded products and the region's increasing disease prevalence. Asia Pacific is expected to grow significantly during the forecast period, owing to factors such as rising target populations, an increase in the number of collaborations for drug development, geographic expansion of key players, and active participation of government and nonprofit organizations in the market space.

Major market player included in this report are:
Berthold Technologies GmbH & Co.KG
Endress+Hauser (Analytik Jena US LLC)
Fujifilm Corporation (Fujifilm VisualSonics Inc.)
LI-COR Biosciences, Inc.
Miltenyi Biotec
PerkinElmer, Inc.
Rigaku Corporation (MILabs B.V.)
TriFoil Imaging
Vieworks Co., Ltd.
Vilber Smart Imaging Ltd.

Recent Developments in the Market:



In May 2022, Bruker announced the release of the ground-breaking 7 Tesla and 9.4 Tesla conduction-cooled Maxwell magnets for its market-leading preclinical magnetic resonance imaging (MRI) system series. The new Maxwell 7 Tesla and 9.4 Tesla magnets build on the popularity of the BioSpec® Maxwell 3 Tesla model by removing the need for liquid Helium or Nitrogen refills while offering high-field sensitivity and resolution for sophisticated preclinical MRI and PET/MR research.

In April 2021, WCG acquired Intrinsic Imaging, a significant global provider of medical imaging core lab services. With over a decade of experience, a team of more than 500 board-certified physicians, and extensive services in support of drug, medical device, and artificial intelligence (AI) clinical trials, Intrinsic Imaging strengthens WCG's scientific and regulatory capabilities. The Company's suite of solutions designed to ensure data integrity and reduce risk in clinical research are complemented by Intrinsic Imaging.

Global Optical Preclinical Imaging Market Report Scope:

Historical Data - 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Modality, End User, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and Modality offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Modality:

Bioluminescence & Fluorescence Imaging Systems



Standalone Fluorescence Imaging Systems
Optical + X-ray & Optical + CT

By End User:

Pharma & Biotech Companies

Academic & Government Research Institutes

Contract Research Organizations

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa



Contents

CHAPTER 1. EXECUTIVE SUMMARY

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2020-2030 (USD Million)
- 1.2.1. Optical Preclinical Imaging Market, by Region, 2020-2030 (USD Million)
- 1.2.2. Optical Preclinical Imaging Market, by Modality, 2020-2030 (USD Million)
- 1.2.3. Optical Preclinical Imaging Market, by End User, 2020-2030 (USD Million)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

CHAPTER 2. GLOBAL OPTICAL PRECLINICAL IMAGING MARKET DEFINITION AND SCOPE

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
 - 2.2.1. Industry Evolution
 - 2.2.2. Scope of the Study
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

CHAPTER 3. GLOBAL OPTICAL PRECLINICAL IMAGING MARKET DYNAMICS

- 3.1. Optical Preclinical Imaging Market Impact Analysis (2020-2030)
 - 3.1.1. Market Drivers
- 3.1.1.1. Increasing funding for preclinical research by both private and public organizations
 - 3.1.1.2. Increase in demand for non-invasive small animal imaging techniques
 - 3.1.2. Market Challenges
 - 3.1.2.1. High Cost of Optical Preclinical Imaging
 - 3.1.2.2. stringent regulations for preclinical research
 - 3.1.3. Market Opportunities
 - 3.1.3.1. Technological advancements in molecular imaging
 - 3.1.3.2. Rising clinical research and drug discovery activities

CHAPTER 4. GLOBAL OPTICAL PRECLINICAL IMAGING MARKET INDUSTRY ANALYSIS



- 4.1. Porter's 5 Force Model
 - 4.1.1. Bargaining Power of Suppliers
 - 4.1.2. Bargaining Power of Buyers
 - 4.1.3. Threat of New Entrants
 - 4.1.4. Threat of Substitutes
 - 4.1.5. Competitive Rivalry
- 4.2. Porter's 5 Force Impact Analysis
- 4.3. PEST Analysis
 - 4.3.1. Political
 - 4.3.2. Economical
 - 4.3.3. Social
 - 4.3.4. Technological
 - 4.3.5. Environmental
 - 4.3.6. Legal
- 4.4. Top investment opportunity
- 4.5. Top winning strategies
- 4.6. COVID-19 Impact Analysis
- 4.7. Disruptive Trends
- 4.8. Industry Expert Perspective
- 4.9. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL OPTICAL PRECLINICAL IMAGING MARKET, BY MODALITY

- 5.1. Market Snapshot
- 5.2. Global Optical Preclinical Imaging Market by Modality, Performance Potential Analysis
- 5.3. Global Optical Preclinical Imaging Market Estimates & Forecasts by Modality 2020-2030 (USD Million)
- 5.4. Optical Preclinical Imaging Market, Sub Segment Analysis
 - 5.4.1. Bioluminescence & Fluorescence Imaging Systems
 - 5.4.2. Standalone Fluorescence Imaging Systems
 - 5.4.3. Optical + X-ray & Optical + CT

CHAPTER 6. GLOBAL OPTICAL PRECLINICAL IMAGING MARKET, BY END USER

- 6.1. Market Snapshot
- 6.2. Global Optical Preclinical Imaging Market by End User, Performance Potential Analysis



- 6.3. Global Optical Preclinical Imaging Market Estimates & Forecasts by End User 2020-2030 (USD Million)
- 6.4. Optical Preclinical Imaging Market, Sub Segment Analysis
 - 6.4.1. Pharma & Biotech Companies
 - 6.4.2. Academic & Government Research Institutes
 - 6.4.3. Contract Research Organizations

CHAPTER 7. GLOBAL OPTICAL PRECLINICAL IMAGING MARKET, REGIONAL ANALYSIS

- 7.1. Top Leading Countries
- 7.2. Top Emerging Countries
- 7.3. Optical Preclinical Imaging Market, Regional Market Snapshot
- 7.4. North America Optical Preclinical Imaging Market
 - 7.4.1. U.S. Optical Preclinical Imaging Market
 - 7.4.1.1. Modality breakdown estimates & forecasts, 2020-2030
 - 7.4.1.2. End User breakdown estimates & forecasts, 2020-2030
 - 7.4.2. Canada Optical Preclinical Imaging Market
- 7.5. Europe Optical Preclinical Imaging Market Snapshot
 - 7.5.1. U.K. Optical Preclinical Imaging Market
 - 7.5.2. Germany Optical Preclinical Imaging Market
 - 7.5.3. France Optical Preclinical Imaging Market
 - 7.5.4. Spain Optical Preclinical Imaging Market
 - 7.5.5. Italy Optical Preclinical Imaging Market
 - 7.5.6. Rest of Europe Optical Preclinical Imaging Market
- 7.6. Asia-Pacific Optical Preclinical Imaging Market Snapshot
 - 7.6.1. China Optical Preclinical Imaging Market
 - 7.6.2. India Optical Preclinical Imaging Market
 - 7.6.3. Japan Optical Preclinical Imaging Market
 - 7.6.4. Australia Optical Preclinical Imaging Market
 - 7.6.5. South Korea Optical Preclinical Imaging Market
 - 7.6.6. Rest of Asia Pacific Optical Preclinical Imaging Market
- 7.7. Latin America Optical Preclinical Imaging Market Snapshot
 - 7.7.1. Brazil Optical Preclinical Imaging Market
 - 7.7.2. Mexico Optical Preclinical Imaging Market
- 7.8. Middle East & Africa Optical Preclinical Imaging Market
 - 7.8.1. Saudi Arabia Optical Preclinical Imaging Market
 - 7.8.2. South Africa Optical Preclinical Imaging Market
- 7.8.3. Rest of Middle East & Africa Optical Preclinical Imaging Market



CHAPTER 8. COMPETITIVE INTELLIGENCE

- 8.1. Key Company SWOT Analysis
 - 8.1.1. Company
 - 8.1.2. Company
 - 8.1.3. Company
- 8.2. Top Market Strategies
- 8.3. Company Profiles
 - 8.3.1. Berthold Technologies GmbH & Co.KG
 - 8.3.1.1. Key Information
 - 8.3.1.2. Overview
 - 8.3.1.3. Financial (Subject to Data Availability)
 - 8.3.1.4. Product Summary
 - 8.3.1.5. Recent Developments
 - 8.3.2. Endress+Hauser (Analytik Jena US LLC)
 - 8.3.3. Fujifilm Corporation (Fujifilm VisualSonics Inc.)
 - 8.3.4. LI-COR Biosciences, Inc.
 - 8.3.5. Miltenyi Biotec
 - 8.3.6. PerkinElmer, Inc.
 - 8.3.7. Rigaku Corporation (MILabs B.V.)
 - 8.3.8. TriFoil Imaging
 - 8.3.9. Vieworks Co., Ltd.
 - 8.3.10. Vilber Smart Imaging Ltd.

CHAPTER 9. RESEARCH PROCESS

- 9.1. Research Process
 - 9.1.1. Data Mining
 - 9.1.2. Analysis
 - 9.1.3. Market Estimation
 - 9.1.4. Validation
 - 9.1.5. Publishing
- 9.2. Research Attributes
- 9.3. Research Assumption



List Of Tables

LIST OF TABLES

- TABLE 1. Global Optical Preclinical Imaging Market, report scope
- TABLE 2. Global Optical Preclinical Imaging Market estimates & forecasts by Region 2020-2030 (USD Million)
- TABLE 3. Global Optical Preclinical Imaging Market estimates & forecasts by Modality 2020-2030 (USD Million)
- TABLE 4. Global Optical Preclinical Imaging Market estimates & forecasts by End User 2020-2030 (USD Million)
- TABLE 5. Global Optical Preclinical Imaging Market by segment, estimates & forecasts, 2020-2030 (USD Million)
- TABLE 6. Global Optical Preclinical Imaging Market by region, estimates & forecasts, 2020-2030 (USD Million)
- TABLE 7. Global Optical Preclinical Imaging Market by segment, estimates & forecasts, 2020-2030 (USD Million)
- TABLE 8. Global Optical Preclinical Imaging Market by region, estimates & forecasts, 2020-2030 (USD Million)
- TABLE 9. Global Optical Preclinical Imaging Market by segment, estimates & forecasts, 2020-2030 (USD Million)
- TABLE 10. Global Optical Preclinical Imaging Market by region, estimates & forecasts, 2020-2030 (USD Million)
- TABLE 11. Global Optical Preclinical Imaging Market by segment, estimates & forecasts, 2020-2030 (USD Million)
- TABLE 12. Global Optical Preclinical Imaging Market by region, estimates & forecasts, 2020-2030 (USD Million)
- TABLE 13. Global Optical Preclinical Imaging Market by segment, estimates & forecasts, 2020-2030 (USD Million)
- TABLE 14. Global Optical Preclinical Imaging Market by region, estimates & forecasts, 2020-2030 (USD Million)
- TABLE 15. U.S. Optical Preclinical Imaging Market estimates & forecasts, 2020-2030 (USD Million)
- TABLE 16. U.S. Optical Preclinical Imaging Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 17. U.S. Optical Preclinical Imaging Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 18. Canada Optical Preclinical Imaging Market estimates & forecasts, 2020-2030 (USD Million)



- TABLE 19. Canada Optical Preclinical Imaging Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 20. Canada Optical Preclinical Imaging Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 21. UK Optical Preclinical Imaging Market estimates & forecasts, 2020-2030 (USD Million)
- TABLE 22. UK Optical Preclinical Imaging Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 23. UK Optical Preclinical Imaging Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 24. Germany Optical Preclinical Imaging Market estimates & forecasts, 2020-2030 (USD Million)
- TABLE 25. Germany Optical Preclinical Imaging Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 26. Germany Optical Preclinical Imaging Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 27. France Optical Preclinical Imaging Market estimates & forecasts, 2020-2030 (USD Million)
- TABLE 28. France Optical Preclinical Imaging Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 29. France Optical Preclinical Imaging Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 30. Italy Optical Preclinical Imaging Market estimates & forecasts, 2020-2030 (USD Million)
- TABLE 31. Italy Optical Preclinical Imaging Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 32. Italy Optical Preclinical Imaging Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 33. Spain Optical Preclinical Imaging Market estimates & forecasts, 2020-2030 (USD Million)
- TABLE 34. Spain Optical Preclinical Imaging Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 35. Spain Optical Preclinical Imaging Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 36. RoE Optical Preclinical Imaging Market estimates & forecasts, 2020-2030 (USD Million)
- TABLE 37. RoE Optical Preclinical Imaging Market estimates & forecasts by segment 2020-2030 (USD Million)
- TABLE 38. RoE Optical Preclinical Imaging Market estimates & forecasts by segment



2020-2030 (USD Million)

TABLE 39. China Optical Preclinical Imaging Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 40. China Optical Preclinical Imaging Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 41. China Optical Preclinical Imaging Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 42. India Optical Preclinical Imaging Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 43. India Optical Preclinical Imaging Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 44. India Optical Preclinical Imaging Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 45. Japan Optical Preclinical Imaging Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 46. Japan Optical Preclinical Imaging Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 47. Japan Optical Preclinical Imaging Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 48. South Korea Optical Preclinical Imaging Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 49. South Korea Optical Preclinical Imaging Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 50. South Korea Optical Preclinical Imaging Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 51. Australia Optical Preclinical Imaging Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 52. Australia Optical Preclinical Imaging Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 53. Australia Optical Preclinical Imaging Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 54. RoAPAC Optical Preclinical Imaging Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 55. RoAPAC Optical Preclinical Imaging Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 56. RoAPAC Optical Preclinical Imaging Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 57. Brazil Optical Preclinical Imaging Market estimates & forecasts, 2020-2030 (USD Million)



TABLE 58. Brazil Optical Preclinical Imaging Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 59. Brazil Optical Preclinical Imaging Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 60. Mexico Optical Preclinical Imaging Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 61. Mexico Optical Preclinical Imaging Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 62. Mexico Optical Preclinical Imaging Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 63. RoLA Optical Preclinical Imaging Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 64. RoLA Optical Preclinical Imaging Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 65. RoLA Optical Preclinical Imaging Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 66. Saudi Arabia Optical Preclinical Imaging Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 67. South Africa Optical Preclinical Imaging Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 68. RoMEA Optical Preclinical Imaging Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 69. List of secondary sources, used in the study of global Optical Preclinical Imaging Market

TABLE 70. List of primary sources, used in the study of global Optical Preclinical Imaging Market

TABLE 71. Years considered for the study

TABLE 72. Exchange rates considered

List of tables and figures and dummy in nature, final lists may vary in the final deliverable



List Of Figures

LIST OF FIGURES

- FIG 1. Global Optical Preclinical Imaging Market, research methodology
- FIG 2. Global Optical Preclinical Imaging Market, Market estimation techniques
- FIG 3. Global Market size estimates & forecast methods
- FIG 4. Global Optical Preclinical Imaging Market, key trends 2022
- FIG 5. Global Optical Preclinical Imaging Market, growth prospects 2023-2030
- FIG 6. Global Optical Preclinical Imaging Market, porters 5 force model
- FIG 7. Global Optical Preclinical Imaging Market, pest analysis
- FIG 8. Global Optical Preclinical Imaging Market, value chain analysis
- FIG 9. Global Optical Preclinical Imaging Market by segment, 2020 & 2030 (USD Million)
- FIG 10. Global Optical Preclinical Imaging Market by segment, 2020 & 2030 (USD Million)
- FIG 11. Global Optical Preclinical Imaging Market by segment, 2020 & 2030 (USD Million)
- FIG 12. Global Optical Preclinical Imaging Market by segment, 2020 & 2030 (USD Million)
- FIG 13. Global Optical Preclinical Imaging Market by segment, 2020 & 2030 (USD Million)
- FIG 14. Global Optical Preclinical Imaging Market, regional snapshot 2020 & 2030
- FIG 15. North America Optical Preclinical Imaging Market 2020 & 2030 (USD Million)
- FIG 16. Europe Optical Preclinical Imaging Market 2020 & 2030 (USD Million)
- FIG 17. Asia pacific Optical Preclinical Imaging Market 2020 & 2030 (USD Million)
- FIG 18. Latin America Optical Preclinical Imaging Market 2020 & 2030 (USD Million)
- FIG 19. Middle East & Africa Optical Preclinical Imaging Market 2020 & 2030 (USD Million)

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