

Live Cell Imaging Market Analysis By Product, Application, Technology (Time lapse Microscopy, Fluorescence Recovery After Photobleaching, Fluorescence Resonance Energy Transfer, High Content Screening), & Segment Forecasts, 2014 - 2025

<https://marketpublishers.com/r/L59DA37A5A8EN.html>

Date: April 2017

Pages: 100

Price: US\$ 5,950.00 (Single User License)

ID: L59DA37A5A8EN

Abstracts

The global live cell imaging market is expected to reach USD 9.3 billion by 2025, according to a new report by Grand View Research, Inc. Rising popularity of kinetic research over fixed cellular analysis is the key driver. Addition of dyes and reagents alter the cell behavior, mostly in a negative manner, which does not showcase the natural course of action of the cellular functions. Understanding the cellular behavior in its natural state is crucial in drug discovery and targeted drug therapy. This, in turn, increases the need for live cell imaging, thus boosting the market.

In a survey by Drug Discovery World Spring, almost 21% researchers prefer & use live cell imaging and 31% plan to use it in the future. Moreover, 38% of the respondents were interested in using live cell kinetic HCS imaging in the future. The most important feature for researchers is the ability to automate the incubation and image capturing of any live cell analyzer. Secondly, they also give importance to viable cell-tracking ability of the equipment. Further development in the technology of equipment is expected to fulfill these criteria and boost the utility of the same over the forecast period.

Development in delivering probes in living cells, targeting organelles, and proteins using some of the techniques has increased use and adoption of live cell imaging in research and other applications. With improved fluorescent probes, the techniques such as Fluorescence Resonance Energy Transfer (FRET) share a majority of the share.

Further Key Findings From The Report Suggest:

Equipment dominated the product segment in 2016. The current system, although of great potential are still expected to perform better over the next few years. The general trend is to make the instruments compact and integrated for end-to-end processing.

Cell biology dominated the application with more than 30% of the shares and was closely followed by developmental biology. Stem cell and drug discovery are the upcoming fields to apply live cell imaging in the research.

North America dominated due to its high investment rate and technologically sound infrastructure. The research firms present in this region are technologically aware, hence, readily invest in high cost equipment.

Asia Pacific is expected to show fastest growth over the forecast period due to increasing application of these imaging techniques in drug discovery and personalized medicine.

Key players includes Carl Zeiss Meditec AG; Leica Microsystems; Nikon Corporation; Becton, Dickinson and Company; GE Healthcare; Olympus Corporation; Thermo Fisher Scientific Inc.; Sigma-Aldrich Corporation; PerkinElmer, Inc.; and Molecular Devices, LLC

Contents

CHAPTER 1 RESEARCH METHODOLOGY

- 1.1 Information Procurement
- 1.2 Data Analysis

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Market Snapshot

CHAPTER 3 LIVE CELL IMAGING MARKET VARIABLES, TRENDS & SCOPE

- 3.1 Market Segmentation and Scope
 - 3.1.1 Market driver analysis
 - 3.1.2 Market restraint analysis
- 3.2 Penetration & Growth Prospects Mapping
- 3.3 Live Cell Imaging Market - PESTLE Analysis
- 3.4 Industry Analysis - Porter's
- 3.5 Live Cell Imaging Market Competitive Landscape: Market Position Analysis (based on products, regional presence)

CHAPTER 4 LIVE CELL IMAGING: PRODUCT ESTIMATES & TREND ANALYSIS

- 4.1 Live Cell Imaging Market: Product Movement Analysis
- 4.2 Equipment
 - 4.2.1 Equipment market estimates and forecasts, 2014 - 2025 (USD Million)
- 4.3 Consumable
 - 4.3.1 Consumable market estimates and forecasts, 2014 - 2025 (USD Million)
- 4.4 Software
 - 4.4.1 Software market estimates and forecasts, 2014 - 2025 (USD Million)

CHAPTER 5 LIVE CELL IMAGING: APPLICATION ESTIMATES & TREND ANALYSIS

- 5.1 Live Cell Imaging Market: Application Movement Analysis
- 5.2 Cell Biology
 - 5.2.1 Cell biology market estimates and forecasts, 2014 - 2025 (USD Million)
- 5.3 Developmental Biology

5.3.1 Developmental biology market estimates and forecasts, 2014 - 2025 (USD Million)

5.4 Stem Cell & Drug Discovery

5.4.1 Stem cell & drug discovery market estimates and forecasts, 2014 - 2025 (USD Million)

5.5 Others

5.5.1 Others market estimates and forecasts, 2014 - 2025 (USD Million)

CHAPTER 6 LIVE CELL IMAGING: TECHNOLOGY ESTIMATES & TREND ANALYSIS

6.1 Live Cell Imaging Market: Technology Movement Analysis

6.2 Time Lapse Microscopy

6.2.1 Time lapse Microscopy market estimates and forecasts, 2014 - 2025 (USD Million)

6.3 Fluorescence Recovery After Photobleaching (FRAP)

6.3.1 Fluorescence recovery after photobleaching (FRAP) market estimates and forecasts, 2014 - 2025 (USD Million)

6.4 Fluorescence Resonance Energy Transfer (FRET)

6.4.1 Fluorescence resonance energy transfer (FRET) market estimates and forecasts, 2014 - 2025 (USD Million)

6.5 High Content Screening (HCS)

6.5.1 High content screening (HCS) market estimates and forecasts, 2014 - 2025 (USD Million)

6.6 Others

6.6.1 Others market estimates and forecasts, 2014 - 2025 (USD Million)

CHAPTER 7 LIVE CELL IMAGING: REGIONAL ESTIMATES & TREND ANALYSIS

7.1 Regional Movement Analysis & Market Share, 2016 & 2025

7.2 North America

7.2.1 North America live cell imaging market, by country, 2014 - 2025 (USD Million)

7.2.2 North America live cell imaging market, by product, 2014 - 2025 (USD Million)

7.2.3 North America live cell imaging market, by application, 2014 - 2025 (USD Million)

7.2.4 North America live cell imaging market, by technology, 2014 - 2025 (USD Million)

7.2.5 U.S.

7.2.5.1 U.S. live cell imaging market, by product, 2014 - 2025 (USD Million)

7.2.5.2 U.S. live cell imaging market, by application, 2014 - 2025 (USD Million)

7.2.5.3 U.S. live cell imaging market, by technology, 2014 - 2025 (USD Million)

7.2.6 Canada

7.2.6.1 Canada live cell imaging market, by product, 2014 - 2025 (USD Million)

7.2.6.2 Canada live cell imaging market, by application, 2014 - 2025 (USD Million)

7.2.6.3 Canada live cell imaging market, by technology, 2014 - 2025 (USD Million)

7.3 Europe

7.3.1 Europe live cell imaging market, by country, 2014 - 2025 (USD Million)

7.3.2 Europe live cell imaging market, by product, 2014 - 2025 (USD Million)

7.3.3 Europe live cell imaging market, by application, 2014 - 2025 (USD Million)

7.3.4 Europe live cell imaging market, by technology, 2014 - 2025 (USD Million)

7.3.5 UK

7.3.5.1 UK live cell imaging market, by product, 2014 - 2025 (USD Million)

7.3.5.2 UK live cell imaging market, by application, 2014 - 2025 (USD Million)

7.3.5.3 UK live cell imaging market, by technology, 2014 - 2025 (USD Million)

7.3.6 Germany

7.3.6.1 Germany live cell imaging market, by product, 2014 - 2025 (USD Million)

7.3.6.2 Germany live cell imaging market, by application, 2014 - 2025 (USD Million)

7.3.6.3 Germany live cell imaging market, by technology, 2014 - 2025 (USD Million)

7.4 Asia Pacific

7.4.1 Asia Pacific live cell imaging market, by country, 2014 - 2025 (USD Million)

7.4.2 Asia Pacific live cell imaging market, by product, 2014 - 2025 (USD Million)

7.4.3 Asia Pacific live cell imaging market, by application, 2014 - 2025 (USD Million)

7.4.4 Asia Pacific live cell imaging market, by technology, 2014 - 2025 (USD Million)

7.4.5 Japan

7.4.5.1 Japan live cell imaging market, by product, 2014 - 2025 (USD Million)

7.4.5.2 Japan live cell imaging market, by application, 2014 - 2025 (USD Million)

7.4.5.3 Japan live cell imaging market, by technology, 2014 - 2025 (USD Million)

7.4.6 China

7.4.6.1 China live cell imaging market, by product, 2014 - 2025 (USD Million)

7.4.6.2 China live cell imaging market, by application, 2014 - 2025 (USD Million)

7.4.6.3 China live cell imaging market, by technology, 2014 - 2025 (USD Million)

7.5 Latin America

7.5.1 Latin America live cell imaging market, by country, 2014 - 2025 (USD Million)

7.5.2 Latin America live cell imaging market, by product, 2014 - 2025 (USD Million)

7.5.3 Latin America live cell imaging market, by application, 2014 - 2025 (USD Million)

7.5.4 Latin America live cell imaging market, by technology, 2014 - 2025 (USD Million)

7.5.5 Brazil

7.5.5.1 Brazil live cell imaging market, by product, 2014 - 2025 (USD Million)

7.5.5.2 Brazil live cell imaging market, by application, 2014 - 2025 (USD Million)

7.5.5.3 Brazil live cell imaging market, by technology, 2014 - 2025 (USD Million)

7.5.6 Mexico

7.5.6.1 Mexico live cell imaging market, by product, 2014 - 2025 (USD Million)

7.5.6.2 Mexico live cell imaging market, by application, 2014 - 2025 (USD Million)

7.5.6.3 Mexico live cell imaging market, by technology, 2014 - 2025 (USD Million)

7.6 MEA

7.6.1 MEA live cell imaging market, by country, 2014 - 2025 (USD Million)

7.6.2 MEA live cell imaging market, by product, 2014 - 2025 (USD Million)

7.6.3 MEA live cell imaging market, by application, 2014 - 2025 (USD Million)

7.6.4 MEA live cell imaging market, by technology, 2014 - 2025 (USD Million)

7.6.5 South Africa

7.6.5.1 South Africa live cell imaging market, by product, 2014 - 2025 (USD Million)

7.6.5.2 South Africa live cell imaging market, by application, 2014 - 2025 (USD Million)

7.6.5.3 South Africa live cell imaging market, by technology, 2014 - 2025 (USD Million)

CHAPTER 8 COMPETITIVE LANDSCAPE

8.1 Strategy Framework

8.1.1 Carl Zeiss

8.1.1.1 Company overview

8.1.1.2 Financial performance

8.1.1.3 Product benchmarking

8.1.1.4 Strategic initiatives

8.1.2 Leica Microsystems

8.1.2.1 Financial performance

8.1.2.2 Product benchmarking

8.1.2.3 Strategic initiatives

8.1.1.4 Strategic initiatives

8.1.3 Nikon Corporation

8.1.3.1 Company overview

8.1.3.2 Financial performance

8.1.3.3 Product benchmarking

8.1.3.4 Strategic initiatives

8.1.4 Becton, Dickinson and Company

8.1.4.1 Company overview

8.1.4.2 Financial performance

8.1.4.3 Product benchmarking

8.1.4.4 Strategic initiatives

- 8.1.5 GE Healthcare
 - 8.1.5.1 Company overview
 - 8.1.5.2 Financial performance
 - 8.1.5.3 Product benchmarking
 - 8.1.5.4 Strategic initiatives
- 8.1.6 Olympus Corporation
 - 8.1.6.1 Company overview
 - 8.1.6.2 Financial performance
 - 8.1.6.3 Product benchmarking
 - 8.1.6.4 Strategic initiatives
- 8.1.7 Thermo Fisher Scientific, Inc.
 - 8.1.7.1 Company overview
 - 8.1.7.2 Financial performance
 - 8.1.7.3 Product benchmarking
 - 8.1.7.4 Strategic initiatives
- 8.1.8 Sigma-Aldrich Corporation
 - 8.1.8.1 Company overview
 - 8.1.8.2 Financial performance
 - 8.1.8.3 Product benchmarking
 - 8.1.8.4 Strategic initiatives
- 8.1.9 PerkinElmer, Inc.
 - 8.1.9.1 Company overview
 - 8.1.9.2 Financial performance
 - 8.1.9.3 Product benchmarking
 - 8.1.9.4 Strategic initiatives
- 8.1.10 Molecular Devices, LCC
 - 8.1.10.1 Company overview
 - 8.1.10.2 Financial performance
 - 8.1.10.3 Product benchmarking
 - 8.1.10.4 Strategic initiatives

List Of Tables

LIST OF TABLES

Table 1 North America live cell imaging market estimates and forecasts, by country, 2014 - 2025 (USD Million)

Table 2 North America live cell imaging market estimates and forecasts, by product, 2014 - 2025 (USD Million)

Table 3 North America live cell imaging market estimates and forecasts, by application, 2014 - 2025 (USD Million)

Table 4 North America live cell imaging market estimates and forecasts, by technology, 2014 - 2025 (USD Million)

Table 5 U.S. live cell imaging market estimates and forecasts, by product, 2014 - 2025 (USD Million)

Table 6 U.S. live cell imaging market estimates and forecasts, by application, 2014 - 2025 (USD Million)

Table 7 U.S. live cell imaging market estimates and forecasts, by technology, 2014 - 2025 (USD Million)

Table 8 Canada live cell imaging market estimates and forecasts, by product, 2014 - 2025 (USD Million)

Table 9 Canada live cell imaging market estimates and forecasts, by application, 2014 - 2025 (USD Million)

Table 10 Canada live cell imaging market estimates and forecasts, by technology, 2014 - 2025 (USD Million)

Table 11 Europe live cell imaging market estimates and forecasts, by country, 2014 - 2025 (USD Million)

Table 12 Europe live cell imaging market estimates and forecasts, by product, 2014 - 2025 (USD Million)

Table 13 Europe live cell imaging market estimates and forecasts, by application, 2014 - 2025 (USD Million)

Table 14 Europe live cell imaging market estimates and forecasts, by technology, 2014 - 2025 (USD Million)

Table 15 UK live cell imaging market estimates and forecasts, by product, 2014 - 2025 (USD Million)

Table 16 UK live cell imaging market estimates and forecasts, by application, 2014 - 2025 (USD Million)

Table 17 UK live cell imaging market estimates and forecasts, by technology, 2014 - 2025 (USD Million)

Table 18 Germany live cell imaging market estimates and forecasts, by product, 2014 -

2025 (USD Million)

Table 19 Germany live cell imaging market estimates and forecasts, by application, 2014 - 2025 (USD Million)

Table 20 Germany live cell imaging market estimates and forecasts, by technology, 2014 - 2025 (USD Million)

Table 21 Asia Pacific live cell imaging market estimates and forecasts, by country, 2014 - 2025 (USD Million)

Table 22 Asia Pacific live cell imaging market estimates and forecasts, by product, 2014 - 2025 (USD Million)

Table 23 Asia Pacific live cell imaging market estimates and forecasts, by application, 2014 - 2025 (USD Million)

Table 24 Asia Pacific live cell imaging market estimates and forecasts, by technology, 2014 - 2025 (USD Million)

Table 25 Japan live cell imaging market estimates and forecasts, by product, 2014 - 2025 (USD Million)

Table 26 Japan live cell imaging market estimates and forecasts, by application, 2014 - 2025 (USD Million)

Table 27 Japan live cell imaging market estimates and forecasts, by technology, 2014 - 2025 (USD Million)

Table 28 China live cell imaging market estimates and forecasts, by product, 2014 - 2025 (USD Million)

Table 29 China live cell imaging market estimates and forecasts, by application, 2014 - 2025 (USD Million)

Table 30 China live cell imaging market estimates and forecasts, by technology, 2014 - 2025 (USD Million)

Table 31 Latin America live cell imaging market estimates and forecasts, by country, 2014 - 2025 (USD Million)

Table 32 Latin America live cell imaging market estimates and forecasts, by product, 2014 - 2025 (USD Million)

Table 33 Latin America live cell imaging market estimates and forecasts, by application, 2014 - 2025 (USD Million)

Table 34 Latin America live cell imaging market estimates and forecasts, by technology, 2014 - 2025 (USD Million)

Table 35 Brazil live cell imaging market estimates and forecasts, by product, 2014 - 2025 (USD Million)

Table 36 Brazil live cell imaging market estimates and forecasts, by application, 2014 - 2025 (USD Million)

Table 37 Brazil live cell imaging market estimates and forecasts, by technology, 2014 - 2025 (USD Million)

Table 38 Mexico live cell imaging market estimates and forecasts, by product, 2014 - 2025 (USD Million)

Table 39 Mexico live cell imaging market estimates and forecasts, by application, 2014 - 2025 (USD Million)

Table 40 Mexico live cell imaging market estimates and forecasts, by technology, 2014 - 2025 (USD Million)

Table 41 MEA live cell imaging market estimates and forecasts, by country, 2014 - 2025 (USD Million)

Table 42 MEA live cell imaging market estimates and forecasts, by product, 2014 - 2025 (USD Million)

Table 43 MEA live cell imaging market estimates and forecasts, by application, 2014 - 2025 (USD Million)

Table 44 MEA live cell imaging market estimates and forecasts, by technology, 2014 - 2025 (USD Million)

Table 45 South Africa live cell imaging market estimates and forecasts, by product, 2014 - 2025 (USD Million)

Table 46 South Africa live cell imaging market estimates and forecasts, by application, 2014 - 2025 (USD Million)

Table 47 South Africa live cell imaging market estimates and forecasts, by technology, 2014 - 2025 (USD Million)

List Of Figures

LIST OF FIGURES

- Fig. 1 Market research process
- Fig. 2 Information procurement
- Fig. 3 Primary research pattern
- Fig. 4 Market research approaches
- Fig. 5 Value chain-based sizing & forecasting
- Fig. 6 QFD modeling for market share assessment
- Fig. 7 Market summary
- Fig. 8 Market trends & outlook
- Fig. 9 Market segmentation & scope
- Fig. 10 Market driver relevance analysis (Current & future impact)
- Fig. 11 Market restraint relevance analysis (Current & future impact)
- Fig. 12 Penetration & growth prospect mapping
- Fig. 13 Live cell imaging market - PESTLE analysis
- Fig. 14 Porter's Five Forces Analysis
- Fig. 15 Live cell imaging: Heat map analysis
- Fig. 16 Live cell imaging market product outlook key takeaways
- Fig. 17 Live cell imaging: product movement analysis
- Fig. 18 Global equipment market, 2014 - 2025 (USD Million)
- Fig. 19 Global consumable market, 2014 - 2025 (USD Million)
- Fig. 20 Global software, 2014 - 2025 (USD Million)
- Fig. 21 Live cell imaging market application outlook key takeaways
- Fig. 22 Live cell imaging: application movement analysis
- Fig. 23 Global cell biology market, 2014 - 2025 (USD Million)
- Fig. 24 Global developmental biology market, 2014 - 2025 (USD Million)
- Fig. 25 Global stem cell & drug discovery, 2014 - 2025 (USD Million)
- Fig. 26 Global others, 2014 - 2025 (USD Million)
- Fig. 27 Live cell imaging market technology outlook key takeaways
- Fig. 28 Live cell imaging: technology movement analysis
- Fig. 29 Global Time lapse microscopy market, 2014 - 2025 (USD Million)
- Fig. 30 Global Fluorescence recovery after photobleaching (FRAP) market, 2014 - 2025 (USD Million)
- Fig. 31 Global Fluorescence resonance energy transfer (FRET), 2014 - 2025 (USD Million)
- Fig. 32 Global High content screening (HCS), 2014 - 2025 (USD Million)
- Fig. 33 Global others, 2014 - 2025 (USD Million)

- Fig. 34 Regional Market Place: Key Takeaways
- Fig. 35 Regional outlook, 2016 & 2025
- Fig. 36 North America live cell imaging market, 2014 - 2025 (USD Million)
- Fig. 37 U.S. live cell imaging market, 2014 - 2025 (USD Million)
- Fig. 38 Canada live cell imaging market, 2014 - 2025 (USD Million)
- Fig. 39 Europe live cell imaging market, 2014 - 2025 (USD Million)
- Fig. 40 UK live cell imaging market, 2014 - 2025 (USD Million)
- Fig. 41 Germany live cell imaging market, 2014 - 2025 (USD Million)
- Fig. 42 Asia Pacific live cell imaging market, 2014 - 2025 (USD Million)
- Fig. 43 Japan live cell imaging market, 2014 - 2025 (USD Million)
- Fig. 44 China live cell imaging market, 2014 - 2025 (USD Million)
- Fig. 45 Latin America live cell imaging market, 2014 - 2025 (USD Million)
- Fig. 46 Brazil live cell imaging market, 2014 - 2025 (USD Million)
- Fig. 47 Mexico live cell imaging market, 2014 - 2025 (USD Million)
- Fig. 48 MEA live cell imaging market, 2014 - 2025 (USD Million)
- Fig. 49 South Africa live cell imaging market, 2014 - 2025 (USD Million)
- Fig. 50 Strategy framework

I would like to order

Product name: Live Cell Imaging Market Analysis By Product, Application, Technology (Time lapse Microscopy, Fluorescence Recovery After Photobleaching, Fluorescence Resonance Energy Transfer, High Content Screening), & Segment Forecasts, 2014 - 2025

Product link: <https://marketpublishers.com/r/L59DA37A5A8EN.html>

Price: US\$ 5,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/L59DA37A5A8EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970