

Cell Analysis Global Market – Forecast To 2020

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Abstracts

Cell analysis plays a major role in gene identification, protein identification, transcription analysis and epigenomics at cellular level. It proves to be an ultra-sensitive device to elucidate specific molecular processes and pathways and reveal the nature of cell heterogeneity. Hospitals, academic institutions, government bodies, as well as pharmaceutical and biotechnology firms are increasing their focus on application of cell analysis as a modern emerging tool in research, drug discovery and diagnosis. The cell analysis techniques global market is segmented into molecular approaches, image-based approaches and others. The molecular approaches include the PCR, NGS and Microfluidics, cell isolation & separation techniques performed at cells genomic level, where as the image-based approaches include microscopes, FISH, FRAP, tracking, high content screening (HCS), cytometry techniques etc. The cell analysis products market is mainly segmented into consumables and instruments. The consumables include reagents, assay plates and microplates where as the instrument segment comprises of microscopes, flow cytometers, --**spectrophotometer, quantitative polymerase chain reaction (QPCR), microfluidic devices, cell counters, high content screening (HCS) systems and cell microarrays.

By application, the market is segmented into by processes, by feild and by therapeutics. By processes is segmented into Cellular processes, Signal transduction pathways, Circulating tumor cells, Single cell analysis, Epigentic target analysis, Subpopulation Characterization, Drug and candidate screening. By field is further segmented into forensic Science, therapeutics, cell imaging, biomarker research, genomic analysis, stem cell analysis, and diagnostics. By therapeutics is further segmented into cancer research, infectious disease diagnosis, genetic testing, immunology, others.

By end-users, the market is segmented into Hospitals, Academic and Research Institutes, Contract Research Organizations (CROs), Pharmaceuticals and Biotechnology Companies, Cell Banks, Diagnostic Laboratories and others.

By geography, the market is segmented into North America, Europe, Asia Pacific and Rest of World. North America holds the largest market share, followed by Europe and Asia. The APAC regions tend to be an emerging market with an opportunity for growth and are likely to be a destination of investment for new investors in the cell analysis market. Drug discovery services outsourcing and government funding for novel screening technologies has resulted in growth of Asian markets.

The cell analysis market is expected to grow at a rate of 9.6% during the forecast period. The major factor influencing the growth is enhanced precision of cell imaging and analysis systems which in turn reduce time and cost of drug discovery process. In addition, the factors like increasing incidence of cancer, increasing government investments, funds and grants, availability of reagents and cell analysis instruments are driving the growth of the market. However, the major market restraints include high capital investments and shortage of skilled labour for high content screening procedure. The biggest opportunities for this market is the emerging APAC market, high content screening services provided by contract research organizations, automation in cancer research for its early diagnosis and reduction of cost in the cancer treatment.

The global cell analysis market is a competitive market and all the active players in this market are involved in innovating new and advanced products to maintain their market shares. The key players in the global cell analysis market include Agilent Technologies, Inc. (U.S.), Becton Dickinson and Company (U.S.), Bio-Rad Laboratories (U.S.), Danaher Corporation (U.S.), GE Healthcare (U.K.), Merck KGAA (Germany), Olympus Corporation (Japan), PerkinElmer, Inc. (U.S.), Promega Corporation (U.S.), Qiagen N.V. (Netherlands), Sigma-Aldrich Corporation (U.S.) and Thermo Fisher Scientific, Inc. (U.S.). In order to offer the products with better software, most of the players in the cell analysis market are collaborating with companies and educational institutions.

Contents

1 EXECUTIVE SUMMARY

2 INTRODUCTION

2.1 KEY TAKE AWAYS

2.2 REPORT DESCRIPTION

2.3 MARKETS COVERED

2.4 STAKEHOLDERS

2.5 RESEARCH METHODOLOGY

2.5.1 MARKET SIZE ESTIMATION

2.5.2 MARKET BREAKDOWN & DATA TRIANGULATION

2.5.3 SECONDARY SOURCES

2.5.4 KEY DATA POINTS FROM SECONDARY SOURCES

2.5.5 PRIMARY SOURCES

2.5.6 KEY DATA POINTS FROM PRIMARY SOURCES

2.5.7 ASSUMPTIONS

3 MARKET ANALYSIS

3.1 INTRODUCTION

3.2 MARKET SEGMENTATION

3.3 FACTORS INFLUENCING MARKET

3.3.1 DRIVERS AND OPPORTUNITIES

3.3.1.1 Rising incidence of life threatening chronic diseases such as cancer and infectious diseases

3.3.1.2 Increasing government, corporate funding and investment in cell based research

3.3.1.3 Introduction of enhanced and precised cell imaging and analysis system reduces the cost and time consumption for drug discovery process

3.3.1.4 Availability of reagents and advanced cell analysis instruments

3.3.1.5 Increasing demand for cell analysis products by end users

3.3.1.6 Emerging Asia Pacific cell analysis market

3.3.1.7 CRO's to provide HCS services

3.3.1.8 Automation in oncology research for early diagnosis and cost reduction treatments

3.3.2 Restraints & Threats

3.3.2.1 Patents or IPR issues and stringent regulatory framework limits

advancements in cellular analysis market

3.3.2.2 Lack of skilled personnel to perform High Content Screening

3.3.2.3 Expensive cell analysis instruments

3.4 REGULATORY AFFAIRS

3.4.1 U.S.

3.4.2 EUROPE

3.4.3 CHINA

3.4.4 INDIA

3.4.5 JAPAN

3.5 PORTER'S FIVE FORCE ANALYSIS

3.5.1 THREAT OF NEW ENTRANTS

3.5.2 THREAT OF SUBSTITUTES

3.5.3 RIVALRY AMONG EXISTING COMPETITORS

3.5.4 BARGAINING POWER OF SUPPLIERS

3.5.5 BARGAINING POWER OF BUYERS

3.6 LATEST AND UPCOMING PRODUCTS

3.7 ONGOING RESEARCHES AND FUNDING AGENCIES

3.8 MARKET SHARE ANALYSIS BY MAJOR PLAYERS

4 CELL ANALYSIS GLOBAL MARKET, TECHNIQUES

4.1 INTRODUCTION

4.2 MOLECULAR APPROACHES

4.2.1 PCR (POLYMERASE CHAIN REACTION)

4.2.1.1 Real Time PCR/ qPCR

4.2.1.2 Digital PCR

4.2.2 SEQUENCING

4.2.2.1 DNA Sequencing

4.2.2.2 Early Methods

4.2.2.3 Advanced or De-Novo Sequencing

4.2.2.4 Next Generation Methods

4.2.2.5 RNA Sequencing

4.2.2.6 Protein sequencing

4.2.3 MICROFLUIDICS AND MICROARRAYS

4.2.3.1 Microfluidics

4.2.3.2 Microarray

4.2.4 NORTH CELL ISOLATION AND SEPARATION

4.2.4.1 Centrifugation

4.2.4.1.1 Micro-centrifugation

4.2.4.1.2 High-Speed Centrifugation or Super speed centrifugation

4.2.4.1.3 Ultra-centrifugation

4.2.4.2 Cell surface based separation

4.2.4.3 Filtration based cell separation

4.3 IMAGE BASED APPROACHES

4.3.1 MICROSCOPY

4.3.1.1 Optical Microscopy

4.3.1.1.1 Fluorescence Microscopy

4.3.1.1.1.1 Stimulated Emission Depletion (STED)

4.3.1.1.1.2 Total Internal Reflection Fluorescence (TIRF)

4.3.1.1.1.3 FRAP (Fluorescence Recovery After Photobleaching)

4.3.1.1.1.4 Laser Capture Microdissection

4.3.1.1.2 Confocal Microscopy

4.3.1.2 Electron microscopy

4.3.1.2.1 Scanning Electron Microscope (SEM)

4.3.1.2.2 Transmission Electron Microscopy (TEM)

4.3.1.2.3 Cryo-Electron Tomography (Cryo-ET)

4.3.1.3 Scanning Probe Microscopy (SPM)

4.3.2 CYTOMETRY

4.3.2.1 Flow cytometry

4.3.2.2 Laser scanning cytometry

4.3.2.3 Image cytometry

4.3.3 HIGH CONTENT SCREENING

4.3.4 FISH (FLUOROSCEANCE IN-SITU HYBRIDIZATION)

4.3.5 SPECTROPHOTOMETRY

5 GLOBAL CELL ANALYSIS PRODUCTS MARKET

5.1 INTRODUCTION

5.2 CONSUMABLES

5.2.1 ASSAY KITS

5.2.1.1 Immunoassays

5.2.1.2 Cell based assays

5.2.2 REAGENTS

5.2.3 MICROPLATES

5.2.4 CELL CULTURE CONSUMABLES

5.2.5 OTHERS

5.3 INSTRUMENTS

5.3.1 CELL COUNTERS

- 5.3.1.1 Hemocytometers
- 5.3.1.2 Automated cell counters
- 5.3.1.3 Coulter counters
- 5.3.1.4 Other cell counters
- 5.3.2 CELL MICROARRAYS
- 5.3.3 CELL ISOLATION AND SEPERATION INSTRUMENTS
- 5.3.4 CYTOMETERS
 - 5.3.4.1 Flow cytometers
 - 5.3.4.2 Laser scanning cytometers
 - 5.3.4.3 Imaging cytometers
- 5.3.5 HIGH CONTENT SCREENING SYSTEMS
 - 5.3.5.1 High content screening imaging and analysis system
 - 5.3.5.2 High content screening software
- 5.3.6 MICROFLUIDIC DEVICES
- 5.3.7 PCR INSTRUMENTS
- 5.3.8 SPECTROPHOTOMETERS
 - 5.3.8.1 Microplate readers
 - 5.3.8.2 Fluorescent spectrophotometers
 - 5.3.8.3 Calorimeters
- 5.3.9 MICROSCOPES
 - 5.3.9.1 Electron microscopes
 - 5.3.9.2 Inverted microscopes
 - 5.3.9.3 Stereo microscopes
 - 5.3.9.4 Fluorescence and confocal microscopes
 - 5.3.9.5 Phase contrast microscopes
 - 5.3.9.6 Other microscopes
- 5.3.10 OTHER INSTRUMENTS
- 5.4 OTHERS

6 GLOBAL CELL ANALYSIS APPLICATIONS MARKET

- 6.1 INTRODUCTION
- 6.2 CELL ANALYSIS APPLICATIONS, BY PROCESS
 - 6.2.1 CELLULAR PROCESSES
 - 6.2.2 SIGNAL TRANSDUCTION PATHWAY
 - 6.2.3 CIRCULATING TUMOR CELLS
 - 6.2.4 SINGLE CELL ANALYSIS
 - 6.2.5 EPIGENETIC TARGET ANALYSIS
 - 6.2.6 SUBPOPULATION CHARACTERIZATION

- 6.2.7 DRUG AND CANDIDATE SCREENING
- 6.3 CELL ANALYSIS APPLICATIONS, BY FIELD
 - 6.3.1 FORENSICS
 - 6.3.2 THERAPEUTICS
 - 6.3.3 GENOMIC ANALYSIS
 - 6.3.4 STEM CELL ANALYSIS
 - 6.3.5 BIOMARKER RESEARCH
 - 6.3.6 CELL IMAGING
 - 6.3.7 DIAGNOSTICS
- 6.4 CELL ANALYSIS APPLICATIONS, BY THERAPEUTIC AREA
 - 6.4.1 CANCER RESEARCH
 - 6.4.2 GENETIC TESTING
 - 6.4.3 INFECTIOUS DISEASES
 - 6.4.4 IMMUNOLOGY
 - 6.4.5 OTHERS

7 CELL ANALYSIS GLOBAL MARKET, BY END-USERS

- 7.1 INTRODUCTION
- 7.2 HOSPITALS
- 7.3 ACADEMIC & RESEARCH LABORATORIES
- 7.4 DIAGNOSTIC LABORATORIES
- 7.5 PHARMACEUTICALS AND BIOTECH COMPANIES
- 7.6 CONTRACT RESEARCH ORGANISATIONS
- 7.7 CELL BANKS
- 7.8 OTHERS

8 REGIONAL MARKET ANALYSIS

- 8.1 INTRODUCTION
- 8.2 NORTH AMERICA
 - 8.2.1 U.S.
- 8.3 EUROPE
- 8.4 ASIA PACIFIC
- 8.5 REST OF THE WORLD

9 COMPANY DEVELOPMENTS

- 9.1 INTRODUCTION

9.1.1 NEW PRODUCT LAUNCHES AS A MAJOR GROWTH STRATEGY OF CELL ANALYSIS PLAYERS

9.2 NEW PRODUCT LAUNCH

9.3 AGREEMENTS, PARTNERSHIPS, COLLABORATIONS & JOINT VENTURES

9.4 APPROVALS

9.5 MERGERS AND ACQUISITIONS

9.6 OTHER DEVELOPMENTS

10 MAJOR PLAYER PROFILES

10.1 AGILENT TECHNOLOGIES, INC.

10.1.1 OVERVIEW

10.1.2 FINANCIALS

10.1.3 PRODUCT PORTFOLIO

10.1.4 KEY DEVELOPMENTS

10.1.5 BUSINESS STRATEGY

10.1.6 SWOT ANALYSIS

10.2 BECTON, DICKINSON AND COMPANY

10.2.1 OVERVIEW

10.2.2 FINANCIALS

10.2.3 PRODUCT PORTFOLIO

10.2.4 KEY DEVELOPMENTS

10.2.5 BUSINESS STRATEGY

10.2.6 SWOT ANALYSIS

10.3 BIO-RAD LABORATORIES

10.3.1 OVERVIEW

10.3.2 FINANCIALS

10.3.3 PRODUCT PORTFOLIO

10.3.4 KEY DEVELOPMENTS

10.3.5 BUSINESS STRATEGY

10.3.6 SWOT ANALYSIS

10.4 DANAHER CORPORATION

10.4.1 OVERVIEW

10.4.2 FINANCIALS

10.4.3 PRODUCT PORTFOLIO

10.4.4 KEY DEVELOPMENTS

10.4.5 BUSINESS STRATEGY

10.4.6 SWOT ANALYSIS

10.5 GE HEALTHCARE

- 10.5.1 OVERVIEW
- 10.5.2 FINANCIALS
- 10.5.3 PRODUCT PORTFOLIO
- 10.5.4 KEY DEVELOPMENTS
- 10.5.5 BUSINESS STRATEGY
- 10.5.6 SWOT ANALYSIS
- 10.6 MERCK KGAA
 - 10.6.1 OVERVIEW
 - 10.6.2 FINANCIALS
 - 10.6.3 PRODUCT PORTFOLIO
 - 10.6.4 KEY DEVELOPMENTS
 - 10.6.5 BUSINESS STRATEGY
 - 10.6.6 SWOT ANALYSIS
- 10.7 OLYMPUS CORPORATION
 - 10.7.1 OVERVIEW
 - 10.7.2 FINANCIALS
 - 10.7.3 PRODUCT PORTFOLIO
 - 10.7.4 KEY DEVELOPMENTS
 - 10.7.5 BUSINESS STRATEGY
 - 10.7.6 SWOT ANALYSIS
- 10.8 PERKINELMER, INC.
 - 10.8.1 OVERVIEW
 - 10.8.2 FINANCIALS
 - 10.8.3 PRODUCT PORTFOLIO
 - 10.8.4 KEY DEVELOPMENTS
 - 10.8.5 BUSINESS STRATEGY
 - 10.8.6 SWOT ANALYSIS
- 10.9 PROMEGA CORPORATION
 - 10.9.1 OVERVIEW
 - 10.9.2 FINANCIALS
 - 10.9.3 PRODUCT PORTFOLIO
 - 10.9.4 KEY DEVELOPMENTS
 - 10.9.5 BUSINESS STRATEGY
 - 10.9.6 SWOT ANALYSIS
- 10.10 QIAGEN N.V.
 - 10.10.1 OVERVIEW
 - 10.10.2 FINANCIALS
 - 10.10.3 PRODUCT PORTFOLIO
 - 10.10.4 KEY DEVELOPMENTS

- 10.10.5 BUSINESS STRATEGY
- 10.10.6 SWOT ANALYSIS
- 10.11 SIGMA ALDRICH CORPORATION
 - 10.11.1 OVERVIEW
 - 10.11.2 FINANCIALS
 - 10.11.3 PRODUCT PORTFOLIO
 - 10.11.4 KEY DEVELOPMENTS
 - 10.11.5 BUSINESS STRATEGY
 - 10.11.6 SWOT ANALYSIS
- 10.12 THERMO FISHER SCIENTIFIC, INC.
 - 10.12.1 OVERVIEW
 - 10.12.2 FINANCIALS
 - 10.12.3 PRODUCT PORTFOLIO
 - 10.12.4 KEY DEVELOPMENTS
 - 10.12.5 BUSINESS STRATEGY
 - 10.12.6 SWOT ANALYSIS

List Of Tables

LIST OF TABLES

Table 1 CELL ANALYSIS GLOBAL MARKET REVENUE, BY REGION, (2012-2020) (\$MN)

Table 2 CELL ANALYSIS GLOBAL TECHNIQUES MARKET REVENUE, BY TYPE, (2012-2020) (\$MN)

Table 3 CELL ANALYSIS GLOBAL PRODUCTS MARKET REVENUE, BY TYPE, (2012-2020) (\$MN)

Table 4 CELL ANALYSIS GLOBAL APPICATION MARKET REVENUE, BY PROCESS, BY TYPE (2012-2020) (\$MN)

Table 5 CELL ANALYSIS GLOBAL APPICATION MARKET REVENUE, BY FIELD, BY TYPE (2012-2020) (\$MN)

Table 6 CELL ANALYSIS GLOBAL APPICATION MARKET REVENUE, BY THERAPEUTIC AREA, BY TYPE (2012-2020) (\$MN)

Table 7 CELL ANALYSIS GLOBAL END USERS MARKET REVENUE, BY TYPE, (2012-2020) (\$MN)

Table 8 CELL ANALYSIS GLOBAL TECHNIQUES MARKET REVENUE, BY REGION, (2012-2020) (\$MN)

Table 9 CELL ANALYSIS GLOBAL MARKET REVENUE, BY TECHNIQUE, (2012-2020) (\$MN)

Table 10 MOLECULAR APPROACHES CELL ANALYSIS GLOBAL MARKET REVENUE, BY REGION, (2012-2020) (\$MN)

Table 11 CELL ANALYSIS MOLECULAR APPROACHES MARKET REVENUE, BY TYPES, (2012-2020) (\$MN)

Table 12 PCR TECHNIQUE IN CELL ANALYSIS GLOBAL MARKET REVENUE, BY REGION, (2012-2020) (\$MN)

Table 13 SEQUENCING TECHNIQUE IN CELL ANALYSIS GLOBAL MARKET REVENUE, BY REGION, (2012-2020) (\$MN)

Table 14 MICROFLUIDICS & MICROARRAYS IN CELL ANALYSIS GLOBAL MARKET REVENUE, BY REGION, (2012-2020) (\$MN)

Table 15 CELL ISOLATION/ SEPARATION TECHNIQUES IN CELL ANALYSIS GLOBAL MARKET REVENUE, BY REGION, (2012-2020) (\$MN)

Table 16 IMAGE-BASED APPROACHES CELL ANALYSIS GLOBAL MARKET REVENUE, BY REGION, (2012-2020) (\$MN)

Table 17 IMAGE-BASED APPROACHES CELL ANALYSIS GLOBAL MARKET REVENUE, BY TYPE, (2012-2020) (\$MN)

Table 18 MICROSCOPY CELL ANALYSIS GLOBAL MARKET REVENUE, BY

REGION, (2012-2020) (\$MN)

Table 19 MICROSCOPY CELL ANALYSIS GLOBAL MARKET REVENUE, BY TYPE, (2012-2020) (\$MN)

Table 20 OPTICAL MICROSCOPY CELL ANALYSIS GLOBAL MARKET REVENUE, BY REGION, (2012-2020) (\$MN)

Table 21 ELECTRON MICROSCOPY CELL ANALYSIS GLOBAL MARKET REVENUE, BY REGION, (2012-2020) (\$MN)

Table 22 SCANNING PROBE MICROSCOPY CELL ANALYSIS GLOBAL MARKET REVENUE, BY REGION, (2012-2020) (\$MN)

Table 23 CYTOMETRY CELL ANALYSIS GLOBAL MARKET REVENUE, BY REGION, (2012-2020) (\$MN)

Table 24 CYTOMETRY CELL ANALYSIS GLOBAL MARKET REVENUE, BY TYPE, (2012-2020) (\$MN)

Table 25 FLOW CYTOMETRY CELL ANALYSIS GLOBAL MARKET REVENUE, BY REGION, (2012-2020) (\$MN)

Table 26 LASER SCANNING CYTOMETRY CELL ANALYSIS GLOBAL MARKET REVENUE, BY REGION, (2012-2020) (\$MN)

Table 27 IMAGE CYTOMETRY SCREENING CELL ANALYSIS GLOBAL MARKET REVENUE, BY REGION, (2012-2020) (\$MN)

Table 28 HIGH CONTENT SCREENING CELL ANALYSIS GLOBAL MARKET REVENUE, BY REGION, (2012-2020) (\$MN)

Table 29 FISH (FLUORESCENT IN-SITU HYBRIDIZATION) CELL ANALYSIS GLOBAL MARKET REVENUE, BY REGION, (2012-2020) (\$MN)

Table 30 SPECTROPHOTOMETRY CELL ANALYSIS GLOBAL MARKET REVENUE, BY REGION, (2012-2020) (\$MN)

Table 31 CELL ANALYSIS GLOBAL PRODUCTS MARKET, BY TYPE (2012-2020) (\$MN)

Table 32 CELL ANALYSIS CONSUMABLES GLOBAL MARKET, BY REGION (2012-2020) (\$MN)

Table 33 CELL ANALYSIS CONSUMABLES GLOBAL MARKET, BY TYPE (2012-2020) (\$MN)

Table 34 CELL ANALYSIS ASSAY KITS GLOBAL MARKET, BY REGION (2012-2020) (\$MN)

Table 35 CELL ANALYSIS REAGENTS GLOBAL MARKET, BY REGION (2012-2020) (\$MN)

Table 36 CELL ANALYSIS MICROPLATES GLOBAL MARKET, BY REGION (2012-2020) (\$MN)

Table 37 CELL ANALYSIS CONSUMABLES MARKET FOR CELL CULTURE, BY REGION (2012-2020) (\$MN)

Table 38 GLOBAL CELL ANALYSIS OTHER CONSUMABLES MARKET, BY REGION (2012-2020) (\$MN)

Table 39 CELL ANALYSIS INSTRUMENTS GLOBAL MARKET, BY REGION (2012-2020) (\$MN)

Table 40 CELL ANALYSIS INSTRUMENTS GLOBAL MARKET, BY TYPE (2012-2020) (\$MN)

Table 41 CELL ANALYSIS CELL COUNTERS GLOBAL MARKET, BY REGION (2012-2020) (\$MN)

Table 42 CELL ANALYSIS CELL MICROARRAYS GLOBAL MARKET, BY REGION (2012-2020) (\$MN)

Table 43 CELL ANALYSIS CELL ISOLATION/ SEPARATION INSTRUMENTS GLOBAL MARKET, BY REGION (2012-2020) (\$MN)

Table 44 CELL ANALYSIS CYTOMETERS GLOBAL MARKET, BY REGION (2012-2020) (\$MN)

Table 45 CELL ANALYSIS HIGH CONTENT SCREENING GLOBAL MARKET, BY REGION (2012-2020) (\$MN)

Table 46 CELL ANALYSIS MARKET FOR MICROFLUIDIC DEVICES, BY REGION (2012-2020) (\$MN)

Table 47 CELL ANALYSIS MARKET FOR PCR DEVICES, BY REGION (2012-2020) (\$MN)

Table 48 CELL ANALYSIS SPECTROPHOTOMETERS GLOBAL MARKET, BY REGION (2012-2020) (\$MN)

Table 49 CELL ANALYSIS MICROSCOPES GLOBAL MARKET, BY REGION (2012-2020) (\$MN)

Table 50 GLOBAL CELL ANALYSIS OTHER INSTRUMENTS MARKET, BY REGION (2012-2020) (\$MN)

Table 51 GLOBAL CELL ANALYSIS OTHER (SERVICES) PRODUCTS MARKET, BY REGION (2012-2020) (\$MN)

Table 52 GLOBAL CELL ANALYSIS APPLICATION MARKET, BY REGION (2012-2020) (\$MN)

Table 53 GLOBAL CELL ANALYSIS APPLICATION MARKET FOR CELLULAR PROCESSES, BY REGION, (2012-2020) (\$MN)

Table 54 GLOBAL CELL ANALYSIS APPLICATION MARKET FOR SIGNAL TRANSDUCTION STUDIES, BY REGION (2012-2020) (\$MN)

Table 55 GLOBAL CELL ANALYSIS APPLICATIONS MARKET FOR CTC, BY REGION (2012-2020) (\$MN)

Table 56 GLOBAL CELL ANALYSIS APPLICATIONS MARKET FOR SINGLE CELL ANALYSIS, BY REGION (2012-2020) (\$MN)

Table 57 GLOBAL CELL ANALYSIS APPLICATIONS MARKET FOR EPIGENETIC

TARGET ANALYSIS, BY REGION (2012-2020) (\$MN)

Table 58 GLOBAL CELL ANALYSIS APPLICATIONS MARKET FOR
SUBPOPULATION CHARACTERIZATION, BY REGION (2012-2020) (\$MN)

Table 59 GLOBAL CELL ANALYSIS APPLICATIONS MARKET FOR DRUG AND
CANDIDATE SCREENING, BY REGION (2012-2020) (\$MN)

Table 60 GLOBAL CELL ANALYSIS APPLICATION MARKET RELATED TO
FORENSICS, BY REGION, (2012-2020) (\$MN)

Table 61 GLOBAL CELL ANALYSIS APPLICATION MARKET RELATED TO
THERAPEUTICS, BY REGION (2012-2020) (\$MN)

Table 62 GLOBAL CELL ANALYSIS APPLICATIONS MARKET FOR GENOMIC
ANALYSIS, BY REGION (2012-2020) (\$MN)

Table 63 GLOBAL CELL ANALYSIS APPLICATIONS MARKET FOR STEM CELL
ANALYSIS, BY REGION (2012-2020) (\$MN)

Table 64 GLOBAL CELL ANALYSIS APPLICATIONS MARKET FOR BIOMARKER
RESEARCH, BY REGION (2012-2020) (\$MN)

Table 65 GLOBAL CELL ANALYSIS APPLICATIONS MARKET FOR CELL IMAGING,
BY REGION (2012-2020) (\$MN)

Table 66 GLOBAL CELL ANALYSIS APPLICATIONS MARKET FOR DIAGNOSTICS,
BY REGION (2012-2020) (\$MN)

Table 67 GLOBAL CELL ANALYSIS APPLICATION MARKET FOR CANCER
RESEARCH, BY REGION, (2012-2020) (\$MN)

Table 68 GLOBAL CELL ANALYSIS APPLICATION MARKET FOR GENETIC
TESTING, BY REGION (2012-2020) (\$MN)

Table 69 GLOBAL CELL ANALYSIS APPLICATIONS MARKET FOR INFECTIOUS
DISEASES, BY REGION (2012-2020) (\$MN)

Table 70 GLOBAL CELL ANALYSIS APPLICATIONS MARKET FOR IMMUNOLOGY,
BY REGION (2012-2020) (\$MN)

Table 71 GLOBAL CELL ANALYSIS APPLICATIONS MARKET FOR OTHER
THERAPEUTIC AREAS, BY REGION (2012-2020) (\$MN)

Table 72 CELL ANALYSIS GLOBAL END USERS MARKET REVENUE, BY TYPE,
(2012-2020) (\$MN)

Table 73 GLOBAL CELL ANALYSIS MARKET REVENUE FROM HOSPITALS, BY
REGION, (2012-2020) (\$MN)

Table 74 GLOBAL CELL ANALYSIS MARKET REVENUE FROM ACADEMICS &
RESEARCH LABORATORIES, BY REGION, (2012-2020) (\$MN)

Table 75 GLOBAL CELL ANALYSIS MARKET REVENUE FROM DIAGNOSTIC
LABORATORIES, BY REGION, (2012-2020) (\$MN)

Table 76 GLOBAL CELL ANALYSIS MARKET REVENUE FROM PHARMA &
BIOTECH COMPANIES, BY REGION, (2012-2020) (\$MN)

Table 77 GLOBAL CELL ANALYSIS MARKET REVENUE FROM CRO'S, BY REGION, (2012-2020) (\$MN)

Table 78 GLOBAL CELL ANALYSIS MARKET REVENUE FROM CELL BANKS, BY REGION, (2012-2020) (\$MN)

Table 79 GLOBAL CELL ANALYSIS MARKET REVENUE FROM OTHER END USERS, BY REGION, (2012-2020) (\$MN)

Table 80 NORTH AMERICAN CELL ANALYSIS TECHNIQUES MARKET REVENUE, BY TYPE, (2012-2020) (\$MN)

Table 81 NORTH AMERICAN MOLECULAR APPROACHES MARKET REVENUE, BY TYPES, (2012-2020) (\$MN)

Table 82 NORTH AMERICAN IMAGE BASED APPROACHES MARKET REVENUE, BY TYPES, (2012-2020) (\$MN)

Table 83 NORTH AMERICAN CELL ANALYSIS PRODUCTS MARKET REVENUE, BY TYPE (2012-2020) (\$MN)

Table 84 NORTH AMERICAN CONSUMABLES MARKET REVENUE, BY TYPE, (2012-2020) (\$MN)

Table 85 NORTH AMERICAN INSTRUMENTS MARKET REVENUE, BY TYPE, (2012-2020) (\$MN)

Table 86 NORTH AMERICAN APPLICATIONS MARKET REVENUE, BY PROCESSES, BY TYPE, (2012-2020) (\$MN)

Table 87 NORTH AMERICAN APPLICATIONS MARKET REVENUE, BY FIELD, BY TYPE, (2012-2020) (\$MN)

Table 88 NORTH AMERICAN APPLICATIONS MARKET REVENUE, BY THERAPEUTIC AREAS, BY TYPE, (2012-2020) (\$MN)

Table 89 NORTH AMERICAN CELL ANALYSIS END USERS MARKET REVENUE, BY TYPE, (2012-2020) (\$MN)

Table 90 EUROPEAN CELL ANALYSIS TECHNIQUES MARKET REVENUE, BY TYPE, (2012-2020) (\$MN)

Table 91 EUROPEAN MOLECULAR APPROACHES MARKET REVENUE, BY TYPES, (2012-2020) (\$MN)

Table 92 EUROPEAN IMAGE BASED APPROACHES MARKET REVENUE, BY TYPES, (2012-2020) (\$MN)

Table 93 EUROPEAN CELL ANALYSIS PRODUCTS MARKET REVENUE, BY TYPE (2012-2020) (\$MN)

Table 94 EUROPEAN CONSUMABLES MARKET REVENUE, BY TYPE, (2012-2020) (\$MN)

Table 95 EUROPEAN INSTRUMENTS MARKET REVENUE, BY TYPE, (2012-2020) (\$MN)

Table 96 EUROPEAN APPLICATIONS MARKET REVENUE, BY PROCESSES, BY

TYPE, (2012-2020) (\$MN)

Table 97 EUROPEAN APPLICATIONS MARKET REVENUE, BY FIELD, BY TYPE, (2012-2020) (\$MN)

Table 98 EUROPEAN APPLICATIONS MARKET REVENUE, BY THERAPEUTIC AREAS, BY TYPE, (2012-2020) (\$MN)

Table 99 EUROPEAN CELL ANALYSIS END USERS MARKET REVENUE, BY TYPE, (2012-2020) (\$MN)

Table 100 ASIA PACIFIC CELL ANALYSIS TECHNIQUES MARKET REVENUE, BY TYPE, (2012-2020) (\$MN)

Table 101 ASIA PACIFIC MOLECULAR APPROACHES MARKET REVENUE, BY TYPES, (2012-2020) (\$MN)

Table 102 ASIA PACIFIC IMAGE BASED APPROACHES MARKET REVENUE, BY TYPES, (2012-2020) (\$MN)

Table 103 ASIA PACIFIC CELL ANALYSIS PRODUCTS MARKET REVENUE, BY TYPE (2012-2020) (\$MN)

Table 104 ASIA PACIFIC CONSUMABLES MARKET REVENUE, BY TYPE, (2012-2020) (\$MN)

Table 105 ASIA PACIFIC INSTRUMENTS MARKET REVENUE, BY TYPE, (2012-2020) (\$MN)

Table 106 ASIA PACIFIC APPLICATIONS MARKET REVENUE, BY PROCESSES, BY TYPE, (2012-2020) (\$MN)

Table 107 ASIA PACIFIC APPLICATIONS MARKET REVENUE, BY FIELD, BY TYPE, (2012-2020) (\$MN)

Table 108 ASIA PACIFIC APPLICATIONS MARKET REVENUE, BY THERAPEUTIC AREAS, BY TYPE, (2012-2020) (\$MN)

Table 109 ASIA PACIFIC CELL ANALYSIS END USERS MARKET REVENUE, BY TYPE, (2012-2020) (\$MN)

Table 110 ROW CELL ANALYSIS TECHNIQUES MARKET REVENUE, BY TYPE, (2012-2020) (\$MN)

Table 111 ROW MOLECULAR APPROACHES MARKET REVENUE, BY TYPES, (2012-2020) (\$MN)

Table 112 ROW IMAGE BASED APPROACHES MARKET REVENUE, BY TYPES, (2012-2020) (\$MN)

Table 113 ROW CELL ANALYSIS PRODUCTS MARKET REVENUE, BY TYPE (2012-2020) (\$MN)

Table 114 ROW CONSUMABLES MARKET REVENUE, BY TYPE, (2012-2020) (\$MN)

Table 115 ROW INSTRUMENTS MARKET REVENUE, BY TYPE, (2012-2020) (\$MN)

Table 116 ROW APPLICATIONS MARKET REVENUE, BY PROCESSES, BY TYPE, (2012-2020) (\$MN)

Table 117 ROW APPLICATIONS MARKET REVENUE, BY FIELD, BY TYPE, (2012-2020) (\$MN)

Table 118 ROW APPLICATIONS MARKET REVENUE, BY THERAPEUTIC AREAS, BY TYPE, (2012-2020) (\$MN)

Table 119 ROW CELL ANALYSIS END USERS MARKET REVENUE, BY TYPE, (2012-2020) (\$MN)

Table 120 NEW PRODUCT LAUNCHES, (2011-2015)

Table 121 AGREEMENTS, PARTNERSHIPS, COLLABORATIONS & JOINT VENTURE, (2011-2014)

Table 122 APPROVALS, (2013-2014)

Table 123 MERGERS AND ACQUISITIONS, (2013-2014)

Table 124 OTHER DEVELOPMENTS (2013-2014)

Table 125 AGILENT TECHNOLOGIES, INC.: TOTAL REVENUE AND R&D EXPENSES (2012-2014) (\$MN)

Table 126 AGILENT TECHNOLOGIES, INC.: TOTAL REVENUE, BY SEGMENTS, (2012-2014) (\$MN)

Table 127 AGILENT TECHNOLOGIES, INC.: TOTAL REVENUE, BY GEOGRAPHY, (2012-2014) (\$MN)

Table 128 BECTON, DICKINSON AND COMPANY: TOTAL REVENUE AND R&D EXPENSES (2012-2014) (\$MN)

Table 129 BECTON, DICKINSON AND COMPANY: TOTAL REVENUE, BY SEGMENTS (2012-2014) (\$ MN)

Table 130 BECTON, DICKINSON AND COMPANY: TOTAL REVENUE, BY GEOGRAPHY (2012-2014) (\$ MN)

Table 131 BIO-RAD LABORATORIES: TOTAL REVENUE AND R&D EXPENSES (2011-2013) (\$MN)

Table 132 BIO-RAD LABORATORIES: TOTAL REVENUE, BY SEGMENTS (2011-2013) (\$MN)

Table 133 BIO-RAD LABORATORIES: TOTAL REVENUE, BY GEOGRAPHY (2011-2013) (\$MN)

Table 134 DANAHER CORPORATION: TOTAL REVENUE AND R&D EXPENSES (2011-2013) (\$BN)

Table 135 DANAHER CORPORATION: TOTAL REVENUE, BY SEGMENTS (2011-2013) (\$BN)

Table 136 DANAHER CORPORATION: TOTAL REVENUE, BY GEOGRAPHY (2011-2013) (\$BN)

Table 137 GENERAL ELECTRIC COMPANY: TOTAL REVENUE AND R&D EXPENSES (2012 – 2014) (\$BN)

Table 138 GENERAL ELECTRIC COMPANY: TOTAL REVENUE, BY SEGMENTS,

(2012-2014) (\$BN)

Table 139 GENERAL ELECTRIC COMPANY: TOTAL REVENUE, BY GEOGRAPHY, (2012-2014) (\$BN)

Table 140 MERCK KGAA: TOTAL REVENUE AND R&D EXPENSES (2012 – 2014) (\$MN)

Table 141 MERCK KGAA: TOTAL REVENUE, BY SEGMENTS, (2012-2014) (\$BN)

Table 142 MERCK KGAA: TOTAL REVENUE, BY GEOGRAPHY, (2012-2014) (\$BN)

Table 143 OLYMPUS CORPORATION: TOTAL REVENUE AND R&D EXPENSES (2011-2013) (\$MN)

Table 144 OLYMPUS CORPORATION: TOTAL REVENUE, BY SEGMENTS (2011-2013) (\$MN)

Table 145 OLYMPUS CORPORATION: TOTAL REVENUE, BY REGION (2011-2013) (\$MN)

Table 146 PERKINELMER, INC.: TOTAL REVENUE AND R&D EXPENSES (2012-2014) (\$MN)

Table 147 PERKINELMER, INC.: TOTAL REVENUE, BY SEGMENTS (2012-2014) (\$MN)

Table 148 PERKINELMER, INC.: TOTAL REVENUE, BY GEOGRAPHY (2012-2014) (\$MN)

Table 149 PROMEGA CORPORATION: TOTAL REVENUE AND R&D EXPENSES, (2011-2013) (\$MN)

Table 150 QIAGEN'S: TOTAL REVENUE AND R&D EXPENSES, (2011-2013) (\$MN)

Table 151 QIAGEN'S: TOTAL REVENUE, BY SEGMENTS, (2011-2013) (\$MN)

Table 152 QIAGEN'S: TOTAL REVENUE, BY GEOGRAPHY, (2011-2013) (\$MN)

Table 153 SIGMA ALDRICH'S: TOTAL REVENUE AND R&D EXPENSES, (2012-2014) (\$MN)

Table 154 SIGMA ALDRICH'S: TOTAL REVENUE, BY SEGMENTS, (2012-2014) (\$MN)

Table 155 SIGMA ALDRICH'S: TOTAL REVENUE, BY GEOGRAPHY, (2012-2014) (\$MN)

Table 156 THERMO FISHER SCIENTIFIC, INC.: TOTAL REVENUE AND R&D EXPENSES (2011-2013) (\$BN)

Table 157 THERMO FISHER SCIENTIFIC, INC.: TOTAL REVENUE, BY SEGMENTS (2011-2013) (\$BN)

Table 158 THERMO FISHER SCIENTIFIC, INC.: TOTAL REVENUE, BY GEOGRAPHY (2011-2013) (\$BN)

List Of Figures

LIST OF FIGURES

- Figure 1 GLOBAL CELL ANALYSIS MARKET SHARE, BY GEOGRAPHY (2012-2020)
- Figure 2 RESEARCH METHODOLOGY: CELL ANALYSIS GLOBAL MARKET
- Figure 3 CELL ANALYSIS MARKET: TOP-DOWN AND BOTTOM-UP APPROACH
- Figure 4 CELL ANALYSIS MARKET: FORECASTING MODEL
- Figure 5 CELL ANALYSIS MARKET: MARKET BREAKDOWN & DATA TRIANGULATION
- Figure 6 GLOBAL CELL ANALYSIS MARKET: MARKET SEGMENTATION
- Figure 7 MARKET DYNAMICS
- Figure 8 CELL ANALYSIS MARKET: PORTER'S ANALYSIS
- Figure 9 GLOBAL CELL ANALYSIS MARKET SHARE ANALYSIS, BY KEY PLAYERS, 2013
- Figure 10 GLOBAL CELL ANALYSIS MARKET REVENUE, BY TECHNIQUE (2013 V'S 2020) (\$ MN)
- Figure 11 MOLECULAR APPROACHES CELL ANALYSIS MARKET SHARE, BY TYPE (2013 V'S 2020) (%)
- Figure 12 IMAGE-BASED APPROACHES CELL ANALYSIS GLOBAL MARKET REVENUE, BY TYPE (2013 V'S 2020) (\$ MN)
- Figure 13 GLOBAL CELL ANALYSIS MARKET, BY PRODUCT, (2013 V'S 2020), (\$MN)
- Figure 14 GLOBAL CELL ANALYSIS APPLICATION MARKET SHARE, BY PROCESS OUTLOOK WITH CAGR (2012-2020) (\$MN)
- Figure 15 GLOBAL CELL ANALYSIS APPLICATION MARKET, BY FIELD OUTLOOK (2013) (\$MN)
- Figure 16 GLOBAL CELL ANALYSIS APPLICATION MARKET, BY THERAPEUTIC AREA OUTLOOK (2012-2020) (\$MN)
- Figure 17 GLOBAL CELL ANALYSIS MARKET REVENUE, BY END USERS (2012-2020) (\$MN)
- Figure 18 GLOBAL CELL ANALYSIS MARKET REVENUE, BY REGION (2014-2020) (\$MN)
- Figure 19 OUTLOOK OF NORTH AMERICAN MARKET SIZE, BY PRODUCTS, APPLICATIONS, TECHNIQUES & END-USERS (2013 & 2020)
- Figure 20 OUTLOOK OF EUROPEAN MARKET SIZE, BY PRODUCTS, APPLICATIONS, TECHNIQUES & END-USERS (2013 & 2020)
- Figure 21 OUTLOOK OF ASIA PACIFIC MARKET SIZE, BY PRODUCTS, APPLICATIONS, TECHNIQUES & END-USERS (2013 & 2020)

Figure 22 OUTLOOK OF ROW MARKET SIZE, BY PRODUCTS, APPLICATIONS, TECHNIQUES & END-USERS (2013 & 2020)

Figure 23 KEY GROWTH STRATEGIES, (2011-2014)

Figure 24 SWOT ANALYSIS: AGILTENT TECHNOLOGIES. INC,

Figure 25 SWOT: BECTON, DICKINSON AND COMPANY

Figure 26 SWOT: BIO-RAD LABORATORIES

Figure 27 SWOT: DANAHER CORPORATION

Figure 28 SWOT: GE HEALTHCARE

Figure 29 SWOT: MERCK KGAA

Figure 30 SWOT: OLYMPUS CORPORATION

Figure 31 SWOT: PERKINELMER, INC.

Figure 32 SWOT: PROMEGA CORPORATION

Figure 33 SWOT: QIAGEN N.V

Figure 34 SWOT: SIGMA ALDRICH CORPORATION

Figure 35 SWOT: THERMO FISHER SCIENTIFIC

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