

BIOSENSORS – A GLOBAL MARKET OVERVIEW

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Summary

An increase in the number of applications for biosensors developed or being developed has ensured that this technology follows a growth curve, leading to standardization of equipment, type of biomolecule, and test processes in the areas of drug discovery, biodefense, environmental monitoring, and narcotic detection. These technological developments portray a healthy trend for up-and-coming markets, while in the case of existing markets with a high proportion of application, biosensors would continue to be employed for newer end uses, such as automotive and aerospace. The continual research and development efforts being undertaken would go a long way in making sure that biosensor technology would continue to evolve as the years come, with faster, more specific and high specialty applications.

Inline to the above mentioned trend, the growth for biosensors market is robust in emerging markets in Asia-Pacific with 11% CAGR (2008-2018) closely followed by 10.7% in highly developed market of the United States. Europe is the second largest, in terms of value, after the US with an estimated \$2.6 billion in 2012. This report reviews, analyses and projects the Biosensors market for global and the regional markets including the United States, Europe, Japan, Asia-Pacific and Rest of World. The regional markets further analyzed for 4 more independent countries in Europe – Germany, France, United Kingdom and Italy.

Market for Biosensors application areas analyzed in this study includes Point-of-Care Testing, Home Diagnostics, Environmental Monitoring, Research Laboratories, Process Industry and Security & Biodefense. The report analyses the global market in terms of USD Million. The global market for Biosensors in 2012 is estimated to touch US\$8.5 billion and projected to reach US\$16.8 billion by 2018.

This 232 page global market report includes 53 charts (includes a data table and graphical representation for each chart), supported with meaningful and easy to understand graphical presentation, of the market. The statistical tables represent the data for the global market by geographic region and biosensors application area. 39 key global players and 52 major players across the United States – 36; Europe – 13; Japan – 1; and Asia-Pacific – 2. The report also provides the listing of the companies engaged in research and development, equipment manufacturing, supplies and distribution of biosensors. The global list covers the addresses, contact numbers and the website addresses of 225 companies.

TABLE OF CONTENTS

PART A: GLOBAL MARKET PERSPECTIVE

1. INTRODUCTION

1.1 Product Outline

1.1.1 Principles of Detection

1.1.1.1 Photometric

1.1.1.2 Electrochemical

1.1.1.3 Ion Channel Switch

1.1.1.4 Other Principles

1.1.2 Categories of Biosensors

1.1.2.1 Optical Biosensors

1.1.2.2 Electrochemical Biosensors

1.1.2.2.1 Potentiometric Biosensors

BIOSENSORS – A GLOBAL MARKET OVERVIEW

1.1.2.2.2 Amperometric Biosensors

1.1.2.3 Resonant Biosensors

1.1.2.4 Optical Detection biosensors

1.1.2.5 Thermal Detection Biosensors

1.1.2.6 Ion-Sensitive Biosensors

1.1.2.7 Piezoelectric Biosensors

1.1.2.8 Calorimetric Biosensors

1.2 Research Initiatives in Biosensors Arena

Researchers from the United Kingdom Elucidate Graphite Magnetism

Real-Time Chemical Changes in the Body Detected with Microneedle-Based Sensors

Detection of Oxidant Production in Living Organisms with Biosensors

Research Being Conducted on Biosensor for Detecting Snake Venom

Vehicle Steering Wheel Sensor System Checks Driver's Health

Disease Detection, Water Monitoring to be Improved with Biosensors

Bioagents' Detection with Electrochemical Biosensors

Drug Development to be Expedited Using New Biosensor Microchip

Potential to Enhance Biosensor Fabrication with UNCD Thin Films

Pathogen Detection in Food, Water Enhanced through a Biosensor

Detecting Early Stage Alzheimer's and Parkinson's Facilitated with Biosensors

Llama Blood for New Biosensors

Continuous and Rapid Detection of Health Threats with Optical Biosensors

Stress Monitoring to Cells Facilitated by Color Changes Using a Molecular Biosensor

Biosensors Provide Novel Options for Diabetes Monitoring Sans Pain and Blood

Tackling Agricultural Concerns with Biosensor Technology

Ultrasensitive Biosensors Assist in Cancer Diagnosis

Constant Blood Glucose Monitoring Using an Implantable Biosensor

2. END-USE SECTORS – A SNAP SHOT

2.1 Medical Applications

2.1.1 Biosensors for Diabetes Applications

2.1.1.1 Glucose as Diabetes Biomarker

2.1.1.2 Biosensors for Glucose Measuring

2.1.2 Biosensors for Cardiovascular Diseases Applications

2.1.2.1 Cardiovascular Disease Biomarkers

2.1.2.2 Biosensors in Cardiovascular Disease

2.1.3 Biosensors for Cancer Applications

2.1.3.1 Cancer Biomarkers

2.1.3.2 Biosensors in Cancer Disease

2.2 Environmental Monitoring

2.2.1 Heavy Metals

2.2.2 Biochemical Oxygen Demand (BOD or BOD5)

2.2.3 Nitrogen Compounds

2.2.4 Polychlorinated Biphenyls (PCBs)

2.2.5 Phenolic Compounds

2.2.6 Endocrine Disruptors and Hormones

2.2.7 Organophosphorus (OP) Compounds

2.2.7.1 Pesticides

2.2.7.2 Herbicides

2.2.7.3 Dioxins

2.3 Agri-Food Industry

BIOSENSORS – A GLOBAL MARKET OVERVIEW

- 2.3.1 Biosensors in Food Security
- 2.3.2 Biosensors Used for the Detection of Bacteria
 - 2.3.2.1 Salmonella
 - 2.3.2.2 Listeria monocytogenes
 - 2.3.2.3 Campylobacter
 - 2.3.2.4 Escherichia coli
- 2.4 Security & Biodefense
 - 2.4.1 Identifying Chemical and Biological Warfare Agents with Biosensors

3. KEY MARKET TRENDS

Biosensor Applications Supplemented with Innovative Micro-System Platforms and Materials

- Gallium Arsenide (GaAs)
- Semiconducting Polymers
- Acoustic Wave Devices with Piezoelectric Materials

Lung Cancer Detecting Biosensors to Hit the Market

Melding of Carbon Nanotubes, DNA to Boost Biosensor Performance

Enhanced Categorization of Nanoparticle Clusters for EHS and Biosensors Research

Disease Detection Using Biosensors

Urea Biosensor with UreR Protein Being Developed

Biosensors to Protect the Environment

New Antibody-Based Biosensor for Directing Environmental Clean-Ups and Providing Early Spills Warning System

- Development of the Biosensor
- Next Goal: Antibody to Electrical Signal
- What Next

Detection of Specific Environmental and Agricultural Contaminants Facilitated through Biosensor Technology

Can Urinary Tract Infections Diagnosed Using Biosensors Improve Treatment Options?

- Introduction
- Rationale Behind Better Diagnostics for UTIs
- Biosensors for UTI
- Outlook for the Future

Biosensors Designed and Developed for Detecting Heavy Metal Toxicity

AMBR Biosensor Offers Potential in Expediting Bacterial Infection Treatment

Innovation in Acoustic Wave (AW) Sensing Devices Using Living Cells

- Overview
- Technological Originality
- Functionality
- Positives on Offer

Capacitive Biosensors Developed for Monitoring of Bacterial Toxins and Other Biomolecules

Morpholino-Based Biosensors Exhibit Greater Sensitivity Compared to Traditional Ones

Drug Development Assisted with New Fluorescent Biosensors

Protein Detection Using Carbon Nanotube Ultra-Sensitive Biosensors

Detecting Diseases through Biosensors Using the “Coffee Ring” Phenomenon

4. MAJOR MARKET PLAYERS

3M Company

Abbott Laboratories, Inc.

Affinity Biosensors, LLC

BIOSENSORS – A GLOBAL MARKET OVERVIEW

Affymetrix, Inc.
Analog Devices, Inc.
Animas Corporation
Bayer Healthcare AG
Beckman Coulter, Inc.
Becton, Dickinson and Company
Biacore International AB
Biacore, Inc.
Biomerica, Inc.
Bio-Rad Laboratories, Inc.
Biosensor Applications Sweden AB
Biosensors International Group Ltd
Cambridge Life Sciences Ltd
Drägerwerk AG & Co. KgaA
DSM Biomedical
E. I. Du Pont De Nemours and Company
EMD Millipore
GE Healthcare Ltd.
Johnson & Johnson
Medtronic Diabetes
Nova Biomedical Corp.
Orion Diagnostica Oy
Perkinelmer, Inc.
Qiagen N.V.
Radiometer America, Inc.
RAE Systems, Inc.
Remedios Limited
Roche Holding Ltd.
Siemens AG
Siemens Medical Solutions USA, Inc.
Sigma-Aldrich Corporation
Smiths Detection Group Limited
Smiths Group Plc
Sysmex Corporation
Thermo Fisher Scientific Inc
Universal Biosensors Inc.

5. KEY BUSINESS TRENDS

Roche Diagnostics India, Ind-Swift Enter Into Agreement
GE, Bionime in a Licensing Agreement
Photonics Biosensors for Genalyte from Imec
nanoRETE to Offer Portable Biohazard Detection Test
OneTouch® Verio™ IQ System Launched by LifeScan in the US
Siemens, Universal Biosensors in Partnership to Introduce Advanced Point-of-Care Coagulation Platform
Novel Lentiviral Biosensors from Merck Millipore
SAW Industries' Powerful Acoustic Biosensor
SAW Instruments and ACOBIO K.K. in a Distribution Agreement
Dip and Read™ Anti-GST Biosensor Introduced by ForteBio
Medtronic Commences Enrolling US IDE Study of Enlite™ Sensor for Continuous Glucose Monitoring
Roche Diagnostics, DexCom in an R&D Agreement

BIOSENSORS – A GLOBAL MARKET OVERVIEW

Mobius® CellReady 200 L Single-Use Stirred Tank Bioreactor Launched by EMD Millipore
Test Results of VitroStealth® Coating from DSM Positive for Biosensors
New Malic Acid Biosensor from Biolan
Universal Biosensors and Siemens form Joint Venture
Sony's Acquisition of Micronics Complete
Rapid Biosensor Systems and Ortho Clinical Diagnostics, Inc Sign an Agreement
Sensors for Generation IV Nuclear Systems being Developed by Sporian
In-Line Biosensor from Sporian
Free Nova Max® Link Meter Offered by Nova Diabetes Care for Users of Medtronic
MiniMed Paradigm Pump
Raw Materials and Custom Services for Point-of-Care Diagnostics Manufacture Launched by SAFC®
Abbott's i-STAT® 1 Wireless Point-of-Care Testing System Gets FDA Clearance
On Call® Platinum Blood Glucose Monitoring System from ACON
ACON's Introduction of On Call® Resolve Blood Glucose Monitoring System
New Octet® RED96 System and Dip and Read™ Protein L Biosensor from ForteBio
Universal Sensors' Technology for Detecting Cocaine and Cannabis Traces from Saliva
Vantix™ Biosensor for Testing Antibiotics
Dip and Read™ Protein G Biosensor Launched by ForteBio for its Octet® Platform

6. GLOBAL MARKET OVERVIEW

- 6.1 Market Overview by Application Area
- 6.2 Biosensors Application Area Overview by Geographic Region
 - 6.2.1 Medical
 - 6.2.2 Environmental Monitoring
 - 6.2.3 Research Laboratories
 - 6.2.4 Process Industry
 - 6.2.5 Security & Biodefense

PART B: REGIONAL MARKET PERSPECTIVE

REGIONAL MARKET OVERVIEW

1. THE UNITED STATES

- 1.1 Market Overview by Application Area
- 1.2 Major Market Players
 - 3M Company
 - Abbott Diabetes Care, Inc.
 - Abbott Laboratories, Inc.
 - Abbott Point of Care Inc
 - Abtech Scientific, Inc.
 - Affinity Biosensors, LLC
 - Affymetrix, Inc.
 - Agamatrix Inc.
 - Analog Devices, Inc.
 - Animas Corporation
 - AZUR Environmental
 - Beckman Coulter, Inc.
 - Becton, Dickinson and Company
 - Biacore, Inc.
 - Biomerica, Inc.
 - Bio-Rad Laboratories, Inc.

BIOSENSORS – A GLOBAL MARKET OVERVIEW

DSM Biomedical
E. I. Du Pont De Nemours And Company
EMD Millipore
Innovative Biosensors, Inc. (IBI)
Johnson & Johnson
Lifescan, Inc.
Lifesensors, Inc.
M-Biotech, Inc.
Medtronic Diabetes
Nova Biomedical Corp
Perkinelmer, Inc.
QTL Biosystems LLC
Radiometer America, Inc.
RAE Systems, Inc.
Siemens Healthcare Diagnostics Inc.
Siemens Medical Solutions USA, Inc.
Sigma-Aldrich Corporation
Strategic Diagnostics, Inc
Thermo Fisher Scientific Inc
U. S. Biosensors Inc.

2. EUROPE

2.1 Market Overview by Geographic Region
2.2 Market Overview by Application Area
2.3 Application Area Overview by European Region
2.3.1 Medical
2.3.2 Environmental Monitoring
2.3.3 Research Laboratories
2.3.4 Process Industry
2.3.5 Security & Biodefense
2.4 Major Market Players
Bayer Healthcare AG (Germany)
Biacore International AB (Sweden)
Biosensor Applications Sweden AB (Sweden)
Cambridge Life Sciences Ltd (United Kingdom)
Drägerwerk Ag & Co. KGAA (Germany)
GE Healthcare Ltd. (United Kingdom)
Orion Diagnostica Oy (Finland)
Qiagen N.V. (The Netherlands)
Remedios Limited (United Kingdom)
Roche Holding Ltd. (Switzerland)
Siemens AG (Germany)
Smiths Detection Group Limited (United Kingdom)
Smiths Group Plc (United Kingdom)
2.5 European Market Overview by Country
2.5.1 Germany
2.5.2 France
2.5.3 The United Kingdom

BIOSENSORS – A GLOBAL MARKET OVERVIEW

2.5.4 Italy

2.5.5 Rest of Europe

3. JAPAN

3.1 Market Overview by Application Area

3.2 Sysmex Corporation – A Major Market Player

4. ASIA-PACIFIC

4.1 Market Overview by Application Area

4.2 Major Market Players

Biosensors International Group Ltd (Singapore)

Universal Biosensors Inc. (Australia)

5. REST OF WORLD

Market Overview by Application Area

PART C: GUIDE TO THE INDUSTRY

1. NORTH AMERICA

1.1 Canada

1.2 United States

2. EUROPE

2.1 Czech Republic

2.2 Denmark

2.3 Finland

2.4 France

2.5 Germany

2.6 Ireland

2.7 Sweden

2.8 Switzerland

2.9 The Netherlands

2.10 United Kingdom

3. ASIA-PACIFIC

3.1 Australia

3.2 Japan

3.3 Singapore

3.4 Taiwan

4. REST OF WORLD

4.1 Brazil

4.2 Israel

PART D: ANNEXURE

1. RESEARCH METHODOLOGY

2. THE QUESTIONNAIRE

3. FEEDBACK

BIOSENSORS – A GLOBAL MARKET OVERVIEW

Charts & Graphs

PART A: GLOBAL MARKET PERSPECTIVE

Chart 1: Evolution of Biosensors

Chart 2: List of Prominent Cancer Biomarkers

Chart 3: List of Biosensors for detecting Heavy Metal Contamination

Chart 4: List of Biosensors Used in Detecting Phenolic Compounds

Chart 5: List of Biosensors Used for Detection of Pesticides and Herbicides

Chart 6: Global Biosensors Market Analysis (2008-2018) in USD Million

Chart 7: Global Biosensors Market Analysis (2008-2018) by Application Area – Medical, Environmental Monitoring, Research Laboratories, Process Industry and Security & Biodefense in USD Million

Chart 8: Glance at 2008, 2013 and 2018 Global Biosensors Market Share (%) by Application Area – Medical, Environmental Monitoring, Research Laboratories, Process Industry and Security & Biodefense

Chart 9: Global Market Analysis of Biosensors in Medical Applications (2008-2018) by Geographic Region – United States, Europe, Japan, Asia-Pacific and Rest of World in USD Million

Chart 10: Glance at 2008, 2013 and 2018 Global Market Share (%) of Biosensors in Medical by Geographic Region – United States, Europe, Japan, Asia-Pacific and Rest of World

Chart 11: Global Market Analysis of Biosensors in Environmental Monitoring Applications (2008-2018) by Geographic Region – United States, Europe, Japan, Asia-Pacific and Rest of World in USD Million

Chart 12: Glance at 2008, 2013 and 2018 Global Market Share (%) of Biosensors in Environmental Monitoring by Geographic Region – United States, Europe, Japan, Asia-Pacific and Rest of World

Chart 13: Global Market Analysis of Biosensors in Research Laboratories Applications (2008-2018) by Geographic Region – United States, Europe, Japan, Asia-Pacific and Rest of World in USD Million

Chart 14: Glance at 2008, 2013 and 2018 Global Market Share (%) of Biosensors in Research Laboratories by Geographic Region – United States, Europe, Japan, Asia-Pacific and Rest of World

Chart 15: Global Market Analysis of Biosensors in Process Industry Applications (2008-2018) by Geographic Region – United States, Europe, Japan, Asia-Pacific and Rest of World in USD Million

Chart 16: Glance at 2008, 2013 and 2018 Global Market Share (%) of Biosensors in Process Industry by Geographic Region – United States, Europe, Japan, Asia-Pacific and Rest of World

Chart 17: Global Market Analysis of Biosensors in Security & Biodefense Applications (2008-2018) by Geographic Region – United States, Europe, Japan, Asia-Pacific and Rest of World in USD Million

Chart 18: Glance at 2008, 2013 and 2018 Global Market Share (%) of Biosensors in Security & Biodefense by Geographic Region – United States, Europe, Japan, Asia-Pacific and Rest of World

PART B: REGIONAL MARKET PERSPECTIVE

Chart 19: The Projection of Largest Regions in terms of Market Growth for Biosensors by Geography – Asia-Pacific, United States, Europe and Japan

Chart 20: Global Biosensors Market Analysis (2008-2018) by Geographic Region – United States, Europe, Japan, Asia-Pacific and Rest of World in USD Million

Chart 21: Glance at 2008, 2013 and 2018 Global Biosensors Market Share (%) by Geographic Region – United States, Europe, Japan, Asia-Pacific and Rest of World

REGIONAL MARKET OVERVIEW

THE UNITED STATES

Chart 22: United States Biosensors Market Analysis (2008-2018) by Application Area – Point-of-Care Testing, Home Diagnostics, Environmental Monitoring, Research Laboratories, Process Industry and Security & Biodefense in USD Million

Chart 23: Glance at 2008, 2013 and 2018 United States Biosensors Market Share (%) by Application Area – Point-of-Care Testing, Home Diagnostics, Environmental Monitoring, Research Laboratories, Process Industry and Security & Biodefense

EUROPE

Chart 24: European Biosensors Market Analysis (2008-2018) by Geographic Region – Germany, France, United Kingdom, Italy and Rest of Europe in USD Million

Chart 25: Glance at 2008, 2013 and 2018 European Biosensors Market Share (%) by Geographic Region – Germany, France,

BIOSENSORS – A GLOBAL MARKET OVERVIEW

United Kingdom, Italy and Rest of Europe

Chart 26: European Biosensors Market Analysis (2008-2018) by Application Area – Medical, Environmental Monitoring, Research Laboratories, Process Industry and Security & Biodefense in USD Million

Chart 27: Glance at 2008, 2013 and 2018 European Biosensors Market Share (%) by Application Area – Medical, Environmental Monitoring, Research Laboratories, Process Industry and Security & Biodefense

Chart 28: European Market Analysis of Biosensors in Medical Applications (2008-2018) by Geographic Region – Germany, France, United Kingdom, Italy and Rest of Europe in USD Million

Chart 29: Glance at 2008, 2013 and 2018 European Market Share (%) of Biosensors in Medical by Geographic Region – Germany, France, United Kingdom, Italy and Rest of Europe

Chart 30: European Market Analysis of Biosensors in Environmental Monitoring Applications (2008-2018) by Geographic Region – Germany, France, United Kingdom, Italy and Rest of Europe in USD Million

Chart 31: Glance at 2008, 2013 and 2018 European Market Share (%) of Biosensors in Environmental Monitoring by Geographic Region – Germany, France, United Kingdom, Italy and Rest of Europe

Chart 32: European Market Analysis of Biosensors in Research Laboratories Applications (2008-2018) by Geographic Region – Germany, France, United Kingdom, Italy and Rest of Europe in USD Million

Chart 33: Glance at 2008, 2013 and 2018 European Market Share (%) of Biosensors in Research Laboratories by Geographic Region – Germany, France, United Kingdom, Italy and Rest of Europe

Chart 34: European Market Analysis of Biosensors in Process Industry Applications (2008-2018) by Geographic Region – Germany, France, United Kingdom, Italy and Rest of Europe in USD Million

Chart 35: Glance at 2008, 2013 and 2018 European Market Share (%) of Biosensors in Process Industry by Geographic Region – Germany, France, United Kingdom, Italy and Rest of Europe

Chart 36: European Market Analysis of Biosensors in Security & Biodefense Applications (2008-2018) by Geographic Region – Germany, France, United Kingdom, Italy and Rest of Europe in USD Million

Chart 37: Glance at 2008, 2013 and 2018 European Market Share (%) of Biosensors in Security & Biodefense by Geographic Region – Germany, France, United Kingdom, Italy and Rest of Europe

Germany

Chart 38: German Biosensors Market Analysis (2008-2018) by Application Area – Point-of-Care Testing, Home Diagnostics, Environmental Monitoring, Research Laboratories, Process Industry and Security & Biodefense in USD Million

Chart 39: Glance at 2008, 2013 and 2018 German Biosensors Market Share (%) by Application Area – Point-of-Care Testing, Home Diagnostics, Environmental Monitoring, Research Laboratories, Process Industry and Security & Biodefense

France

Chart 40: French Biosensors Market Analysis (2008-2018) by Application Area – Point-of-Care Testing, Home Diagnostics, Environmental Monitoring, Research Laboratories, Process Industry and Security & Biodefense in USD Million

Chart 41: Glance at 2008, 2013 and 2018 French Biosensors Market Share (%) by Application Area – Point-of-Care Testing, Home Diagnostics, Environmental Monitoring, Research Laboratories, Process Industry and Security & Biodefense

The United Kingdom

Chart 42: United Kingdom Biosensors Market Analysis (2008-2018) by Application Area – Point-of-Care Testing, Home Diagnostics, Environmental Monitoring, Research Laboratories, Process Industry and Security & Biodefense in USD Million

Chart 43: Glance at 2008, 2013 and 2018 United Kingdom Biosensors Market Share (%) by Application Area – Point-of-Care Testing, Home Diagnostics, Environmental Monitoring, Research Laboratories, Process Industry and Security & Biodefense

Italy

Chart 44: Italian Biosensors Market Analysis (2008-2018) by Application Area – Point-of-Care Testing, Home Diagnostics, Environmental Monitoring, Research Laboratories, Process Industry and Security & Biodefense in USD Million

Chart 45: Glance at 2008, 2013 and 2018 Italian Biosensors Market Share (%) by Application Area – Point-of-Care Testing, Home Diagnostics, Environmental Monitoring, Research Laboratories, Process Industry and Security & Biodefense

Rest of Europe

Chart 46: Rest of Europe Biosensors Market Analysis (2008-2018) by Application Area – Point-of-Care Testing, Home Diagnostics, Environmental Monitoring, Research Laboratories, Process Industry and Security & Biodefense in USD Million

BIOSENSORS – A GLOBAL MARKET OVERVIEW

Chart 47: Glance at 2008, 2013 and 2018 Rest of Europe Biosensors Market Share (%) by Application Area – Point-of-Care Testing, Home Diagnostics, Environmental Monitoring, Research Laboratories, Process Industry and Security & Biodefense

JAPAN

Chart 48: Japanese Biosensors Market Analysis (2008-2018) by Application Area – Point-of-Care Testing, Home Diagnostics, Environmental Monitoring, Research Laboratories, Process Industry and Security & Biodefense in USD Million

Chart 49: Glance at 2008, 2013 and 2018 Japanese Biosensors Market Share (%) by Application Area – Point-of-Care Testing, Home Diagnostics, Environmental Monitoring, Research Laboratories, Process Industry and Security & Biodefense

ASIA-PACIFIC

Chart 50: Asia-Pacific Biosensors Market Analysis (2008-2018) by Application Area – Point-of-Care Testing, Home Diagnostics, Environmental Monitoring, Research Laboratories, Process Industry and Security & Biodefense in USD Million

Chart 51: Glance at 2008, 2013 and 2018 Asia-Pacific Biosensors Market Share (%) by Application Area – Point-of-Care Testing, Home Diagnostics, Environmental Monitoring, Research Laboratories, Process Industry and Security & Biodefense

REST OF WORLD

Chart 52: Rest of World Biosensors Market Analysis (2008-2018) by Application Area – Point-of-Care Testing, Home Diagnostics, Environmental Monitoring, Research Laboratories, Process Industry and Security & Biodefense in USD Million

Chart 53: Glance at 2008, 2013 and 2018 Rest of World Biosensors Market Share (%) by Application Area – Point-of-Care Testing, Home Diagnostics, Environmental Monitoring, Research Laboratories, Process Industry and Security & Biodefense

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