

BIOMARKERS: DISCOVERY TECHNIQUES AND APPLICATIONS A GLOBAL MARKET OVERVIEW

Summary

The potential offered by biomarkers in shaping the outcomes of clinical trials, identifying new drug targets and developing diagnostic assays for detecting diseases early is immense, which has ensued in a large number of scientific publications coming out over the past two decades. Biomarker research encompasses widespread fields of discipline, which comprise drug discovery, toxicity, clinical markers of efficacy and therapeutic indicators, development of diagnostic assays and environmental pollutant exposure. The fields of epidemiology and toxicology have also made use of biomarkers in indicating exposure to a range of environmental substances. In such instances, the biomarker could be the substance itself, such as asbestos particles or nicotine-derived nitrosamine ketone (NNK) from tobacco, or a variation of the external substance processed by the body, such as a metabolite. Using biomarkers in species, such as aquatic animals and invertebrates can be helpful in determining levels and ranges of environmental pollutants.

Personalized medicine constitutes another facet that has been in an ever increasing mode, wherein genomic data are utilized for classifying subsets of patients that would respond to a specific line of therapy. The progression of biomarker research in ascertaining the basics of personalized medicine implies that the prospects of jointly developing drugs and biomarkers would be associated with identifying that section of the population that would garner the maximum benefit from that drug treatment. Developing such biomarkers requires expending considerable efforts and resources, which would enable in expanding the tasks accomplished by biomarkers in disease screening as surrogate endpoints and diagnostic indices.

Biomarker discovery techniques analyzed in this report include Bioimaging, Bioinformatics and Omics Technologies. On a broader geographic level, these technologies further drilled down to Bioimaging – Computed Tomography (CT), Magnetic Resonance Imaging (MRI), Ultrasound and Other; and Omics Technologies – Genomics, Metabolomics, Proteomics and Other. The study also explores the global market for therapeutic areas of biomarkers comprising Cardiology, Neurology, Oncology and Other.

The report reviews, analyses and projects the Biomarkers market for global and the regional markets including the United States, Europe, Asia-Pacific and Rest of World. The regional markets further analyzed for 10 independent countries across Europe – France, Germany, Italy, Spain, Sweden, the United Kingdom; and Asia-Pacific – Australia, China, India and Japan. Accounting for a lion’s share of an estimated 47% in 2013, equating to US\$18.9 billion, the United States leads the global market for Biomarkers. Growing at a robust compounded annual growth rate of 18.8% during the period 2013-2020, the global market is projected to touch US\$63.2 billion.

This 350 pages, global market report includes 100 charts (includes a data table and graphical representation for each chart), supported with meaningful and easy to understand graphical presentation, of market numbers. The statistical tables represent the data for the market value in US\$ by geographic region, biomarker discovery techniques and therapeutic area. This report profiles 52 key global players and 70 major players across the United States – 34; Europe – 24; Asia-Pacific – 7 and Rest of World - 5. The research also provides the listing of the companies engaged in research & development, equipment manufacturing and supply of biomarkers. The global list of companies covers addresses, contact numbers and the website addresses of 245 companies.

For more information: [Biomarkers: Discovery Techniques and Applications – A Global Market Overview](#)

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OGT Acquired Rights for Advanced Development and Commercialization of microRNA Biomarkers for Prostate Cancer
KineMed Unveiled Kinetic Biomarkers for Neurological Disorders
Merck Partners with Luminex on Companion Diagnostic Development for Alzheimer's Disease

ST2 Biomarker Detects High Dose Beta Blocker Therapy for Heart Failure Management

EMD Millipore Broadens its Biomarker Testing Service Competences
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Collaboration between Covance and M2Gen® to Further Personalized Cancer Treatment

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Release of Biocartis' DMAT Detection Platform for Biomarker Analysis
Myriad RBM Teamed Up with Sanofi and PHRI to Discover Protein Biomarkers for Diabetes

AVEO and Astellas Started Enrolling Patients in BATON-BC Clinical Study

GE Healthcare Announces the Consequences of the Early Economic Evaluation Studies

Multi-year Collaboration between Thermo Fisher Scientific and Fujirebio Inc. to Commercialize PCT Assay

Renewal of PCT Testing Collaboration between Thermo Fisher Scientific and bioMérieux

Launch of Thermo Scientific Mass Spectrometric Immunoassay Pipette Tips

Ezose Sciences, Fast Forward Collaborate on MS Diagnostic

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KineMed, GSK Pair up for Biomarker Research and Development

Commercial Launch of Novel Diagnostic Biomarker Assay for Brain Disorders

License Renewal of Genedata Expressionist® for Mass Spectrometry
Clariant, Insight Pair up to License ALK Gene Testing for Lung Cancer
Genomic Health Partners with OncoMed for NGS Diagnostic R&D based Biomarkers Discovery

HistoRx Inc. Uses its Patented AQUA Technology to Evaluate mRNA in Tissue

Abbott Receives Selective Rights for Genetic Biomarkers to Predict Specific Prostate Cancer

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SomaLogic and the University of Washington Published the First Application Report of the SOMAscan™ Proteomic Assay Technology
Ezose Sciences, Hirotsaki University Pair up to Discover Novel Oncology Biomarkers

Almac Collaborated with Affymetrix for Global Market Distribution of its Xcel™ Array

Unveiling of Bio-Rad's Novel Bio-Plex Pro™ immunoassays to Discover Human Th17 Cytokines and Cancer Biomarkers

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A GLOBAL MARKET OVERVIEW

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HTG Partners with Sanofi US on Biomarkers Research
QIAGEN Broadens its Companion Diagnostics Portfolio by Receiving Genomic Biomarkers License
Bruker and SISCAPA Assay Technologies Together Published a Paper on SISCAPA-MALDI-TOF Mass Spectrometry
Agilent Technologies and Integrated Diagnostics Joined Forces on Proteomic Assays Development
EMD Millipore and Proteomics International Partner to Validate Diabetic Nephropathy Biomarkers
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Amgen, Inc. (United States)
Analytical Biological Services Inc. (United States)
Applied Neurosolutions, Inc. (United States)
Asuragen, Inc. (United States)
Aviva Biosciences Corporation (United States)
Banyan Biomarkers Inc. (United States)
Beckman Coulter, Inc. (United States)
Becton, Dickinson And Company (United States)
BG Medicine, Inc. (United States)
Bio-Rad Laboratories, Inc. (United States)
Bristol-Myers Squibb Company (United States)
Bruker Corporation (United States)
Celera Corporation (United States)
Charles River Laboratories International, Inc. (United States)
Clariant, Inc. (United States)
EMD Millipore Corporation (United States)
Genentech, Inc. (United States)
Genomic Health Inc. (United States)
Johnson & Johnson (United States)
Merck & Co., Inc. (United States)
Metabolon, Inc. (United States)
Myriad Genetics, Inc. (United States)
Perkinelmer Inc. (United States)
Pfizer, Inc. (United States)
Pharmaceutical Product Development, LLC. (United States)
Roche Diagnostics Corporation (United States)
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Sigma-Aldrich Corporation (United States)
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Agendia N.V. (Netherlands)
Alphalyse A/S (Denmark)
Ani Biotech Oy (Finland)
Astrazeneca Plc (United Kingdom)
Bayer AG (Germany)
Biocartis SA (Switzerland)
Biomérieux SA (France)
Biosystems International (France)
Boehringer Ingelheim GmbH (Germany)
Dako Denmark A/S (Denmark)
Decode Genetics (Iceland)
Epigenomics AG (Germany)
F. Hoffmann-La Roche Ltd. (Switzerland)
GE Healthcare Ltd. (United Kingdom)
Genedata AG (Switzerland)
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GVK Biosciences Private Limited (India)
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