Summary

Large pharma companies have yet to take on a full-blown adoption of metabolomic technologies, when compared to proteomic and genomic research. This is because of the lingering uncertainties as to the advantages offered by metabolomics that have been the outcome of failed proteomics and genomics research programs. Through some recent accomplishments have been able to dispel some of these doubts, wider adoption and acceptance of metabolomics would necessitate additional landmark successes in R&D. In all probability, the future of metabolomics is slated to hinge on discovering biomarkers for determining the presence of disease in an individual biological system. As biological inputs, such as blood glucose levels for diabetes or high cholesterol levels for heart disease, are already being utilized for confirming disease presence, metabolomics can derive benefit from an understanding of biochemical pathways. The existing focus of metabolomics has been on 20-100 different metabolites and while this constitutes a very small proportion compared to other fields of "omics," this discipline has been making robust progress in discovering biomarkers.

Metabolomics analytical techniques analyzed in this report includes Separation Techniques – Capillary Electrophoresis, Gas Chromatography, High Performance Liquid Chromatography (HPLC) and Ultra Performance Liquid Chromatography (UPLC); and Detection Techniques – Mass Spectrometry, Nuclear Magnetic Resonance Spectroscopy and Surface-Based Mass Analysis. The report also analyzes the metabolomics applications comprising Biomarker Discovery, Drug Discovery, Nutrigenomics, Toxicology Testing and Other Applications. Metabolomics therapeutic areas explored in this study includes Cardiology, Neurology, Oncology and Other Diseases.

The global markets for the above mentioned metabolomic analytical techniques, end-use applications and the therapeutic areas are analyzed in terms of value in USD. Metabolomic separation techniques account for over half of the global metabolomics market estimated at US$395.2 million in 2014 while detection techniques shares with US$308.8 million. Biomarker discovery projected to be the fastest growing end use sector with 2014-2020 CAGR of 25.2% and also estimated the largest market for metabolomics in 2014 with US$252.8 million closely followed by drug discovery with US$211.1 million.

The report reviews, analyses and projects the metabolomics technologies, applications and therapeutic areas market for global and the regional markets including North America, Europe, Asia-Pacific and Rest of World. The regional markets further analyzed for 9 independent countries across North America – The United States and Canada; Europe – France, Germany, Italy and the United Kingdom; Asia-Pacific – China, India and Japan.

This 508 page global market report includes 306 charts (includes a data table and graphical representation for each chart), supported with meaningful and easy to understand graphical presentation, of market numbers. This report profiles 20 key global players and 33 major players across North America – 20; Europe – 9; and Asia-Pacific – 4. The research also provides the listing of the companies engaged in research and development, manufacturing and supply of metabolomics technologies and instruments. The global list of companies covers addresses, contact numbers and the website addresses of 92 companies.

For more information: Metabolomics: Technologies and Applications – A Global Market Overview
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Agilent Technologies
BASF SE
Biocrates Life Sciences AG
Bio-Rad Laboratories, Inc.
Bruker Corporation
Danaher Corporation
Genedata AG
GERSTEL GmbH & Co. KG
Human Metabolome Technologies, Inc.
LECO Corporation
Metabolomic Discoveries GmbH
Metabolomic Technologies Inc.
Metabolon, Inc.
Phenomenome Discoveries Inc.
Shimadzu Corporation
Sigma-Aldrich Co. LLC.
Stemina Biomarker Discovery, Inc.
Thermo Fisher Scientific Inc
Waters Corporation
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Thermo Fisher Scientific Inc Announces New Immunoassay for Identification of Hydrocodone
Agilent Technologies and University of Toronto in Collaboration
BIOCRATES Life Sciences AG introduces Standardized Metabolomics-Based Bile Acids Kit
Metabolon Collaborates with Metdia Biotech for European Launch of Quantose™ Prediabetes Tests
Human Metabolome Technologies and MYOS Corporation Enter Into Research Agreement
PhenomeOne Discoveries Inc (PDI) in Collaboration with Bio Medical Laboratories
Waters Introduces Progenesis QI Version 2.0 for Small Molecule Data Analysis
IROA Technologies and University of Florida in a Partnership
Chenomx Launches NMR Suite Version 8.0
Bio-Rad Launches Bio-Plex Pro™ RBM Human Metabolic and Hormone Assays
Bio-Rad Introduces Vitamin D Kit for BioPlex 2200 system
Bruker Corporation Installs the World’s Highest Field 21 Tesla Magnet for FT-ICR Mass Spectrometry
Metabolon Collaborates with PATIA Biopharma
AB Sciex Launches MassView™ Food Testing Software
Agilent Technologies and Bruker in an Agreement
Bruker Launches a Slew of Solutions
Agilent Technologies and Seoul National University in Collaboration
Shimadzu Introduces New Gas Chromatograph Mass Spectrometer
Metabolon Introduces Fourth Generation DiscoveryHD4™ Metabolomics Platform
Metabolon Introduces MetaboLync™
AB SCIEX’s Releases Newborn Screening Solution
Bruker Launches GC-APCI II GC-MS Interface with Automatic MS Calibration
BIOCRATES Launches AbsoluteIDQ® p180 for Alzheimer’s disease
Metabolon Enters Into Collaboration with Human Longevity, Inc.
AB Sciex Launches MasterView™ Therapeutic Biologics
Bruker Launches Therapeutic Biologics with Novel CESI-MS Metabolon in Multiple Collaborations
Genedata Launches Expressionist® 8.0 for Mass Spectrometry
Agilent Technologies Launches New ProPulse NMR Platform
Global Genomics Group (G3) Partners with Metabolon
LipoScience Collaborates with Scripps Health
AB SCIEX Expands Singapore Operations
AB SCIEX Opens New Facility in the Middle East
Agilent Technologies Partners with Daegu Gyeongbuk Institute of Science and Technology
Chenomx Releases New Version of NMR Suite
Bruker Releases maXis™ HD Ultra-High Resolution QTOF
Agilent Technologies splits Business Operations
Bruker Develops Cost-Effective Approach for Screening Inborn Errors of Metabolism using NMR
Shimadzu Launches LabSolutions CS Chromatography Data System
Metabolon and DHMRI in Collaboration
Shimadzu Launches the LCMS-8050 High-Sensitivity, Ultra-Fast Triple Quadrupole LC-MS/MS
AB SCIEX, Genedata and LECO in Partnership
LipoScience and Arup Clinical Laboratories Enter Into an Agreement
Thermo Fisher Introduces LC-MS Software for High Performance Mass Spectrometry
Metabolon’s Quantose™ Prediabetes Test Offers Diabetes Outcome Studies
Shimadzu Launches new LC/MS/MS Method Package for Primary Metabolites
AB SCIEX, Genedata and LECO in Partnership
Waters Expands its Product Line by Launching SYNAPT G2-Si Mass Spectrometer
Bruker Collaborates with SCiLS GmbH for Using SCiLS Lab Software in MALDI Imaging
Agilent Technologies and Shimadzu in an agreement
LipoScience Commences Clinical Development of NMR-Based Cardiovascular Diagnostic Test
Metabolon Launches TrueVision™ Metabolomics Offering and Online Client Tools
Agilent Launches Improved NMR Data-Acquisition Software
AB SCIEX and LECO in a Partnership
LipoScience in a Research Agreement with Duke University School of Medicine
Chenomx Inc and Spain’s Centre for Omic Sciences Enter into Partnership
Human Metabolome Technologies’ US Operations Expanded
Genedata and LECO in a Partnership
Bruker Launches eXtreme Resolution (XR™) Fourier Transform Mass Spectrometer (FTMS)
Waters and Non Linear Dynamics in a Joint Development Agreement
Lipomics Technologies Acquired by Metabolon
Metabolon Technology Enters Into Germany with Validation of Helmholtz Zentrum Muenchen Laboratory
PDI and Polymedco CDP Enter Into Licensing Agreement
Agilent Technologies Acquires Dako
BIOCRATES’ Launches AbsoluteIDQ® p180 und p150 for Waters Xevo® TQ MS Editions
AB SCIEX Introduces New TripleTOF® 5600 System
Metabolon and Takeda in a Research Alliance
Expansion of AB SCIEX’s Brazilian Commercial Operations
Metabolon’s Analytical Methods Granted Patent
BIOCRATES Expands its European Distribution Network
LipoScience Applies for FDA 510(K) for Vantera® Clinical Analyzer
Stemina Biomarker Discovery and Integrated Laboratory Systems (ILS) in Collaboration
Shimadzu Enters into a Research Agreement with Shimane University
Shimadzu and the University of Tokyo in Collaboration
Metabolomic Discoveries GmbH and Durakult Enter Into a Research Partnership
Metabolon Awarded Two Patents by United States Patent and Trademark Office

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Thermo Fisher Scientific Launches Workflow for Metabolomics Research
Metabolon Granted Patent for Metabolomics Methods in Drug Discovery
Metabolon’s Biochemical Analysis Platform Granted Patent
Stemina Biomarker Discovery Enters into Europe through a Distribution Agreement with CIT
Shimadzu and CiRA Announce a Joint Research Agreement
Stemina Biomarker Discovery and Pioneer Hi-Bred Announce a Joint Research Agreement
Stemina Biomarker Discovery, Inc. and Agilent Technologies in an Agreement
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Bio-Rad Laboratories, Inc.
Bruker Corporation
Chenomx Inc. (Canada)
Danaher Corporation
AB SCIEX
Eksigent
IROA Technologies
LECO Corporation
Liposcience, Inc.
Metabolic Technologies Inc. (Canada)
Metabolon
Metabolon, Inc.
Microsolv Technology Corporation
Phenomenome Discoveries Inc. (Canada)
Sigma-Aldrich Co. LLC.
Stemina Biomarker Discovery, Inc.
Thermo Fisher Scientific Inc
Waters Corporation
Nonlinear Dynamics Limited

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Biocrates Life Sciences AG (Austria)
BASF SE (Germany)
Metanomics GmbH
Metanomics Health GmbH
Dataapex (Czech Republic)
Genedata AG (Germany)
Gerstel Gmbh & Co. Kg (Germany)

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