

METABOLOMICS: TECHNOLOGIES AND APPLICATIONS – A GLOBAL MARKET OVERVIEW

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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- Bruker Corporation
- Danaher Corporation
- Genedata AG
- GERSTEL GmbH & Co. KG
- Human Metabolome Technologies, Inc.
- LECO Corporation
- Metabolomic Discoveries GmbH
- Metabolomic Technologies Inc.
- Metabolomx
- 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

Phenomenome 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 MasterView™ Food Testing Software

Agilent Technologies and Bruker in an Agreement

Bruker Launches a Slew of Solutions

Agilent Technologies and Seoul National University in Collaboration

Metabolon and GSK in a Partnership

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 Develops 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

Human Metabolome Technologies Granted Patent from Japanese Patent Office

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 and 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
 SpectralWorks Limited Enters China through a Distributor Agreement with Labcare Scientific
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 Bruker Corporation
 Chenomx Inc. (Canada)
 Danaher Corporation
 AB SCIEX
 Eksigent
 IROA Technologies
 LECO Corporation
 Liposcience, Inc.
 Metabolomic Technologies Inc. (Canada)
 Metabolomx
 Metabolon, Inc.
 Microsolv Technology Corporation
 Phenomenome Discoveries Inc. (Canada)
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 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)

Metabolomic Discoveries GmbH (Germany)

Spectralworks Ltd (United Kingdom)

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Human Metabolome Technologies, Inc. (Japan)

JEOL Ltd. (Japan)

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