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The Global Metabolomics Market is predicted to succeed in USD 2,386.4 million by 2021 from USD 1,209.4 million in 2016, at a CAGR of 14.6% during the forecast period. Metabolomics may be a powerful and unique analytical approach for the systematic identification and quantification of small-molecule metabolites, metabolite target analysis, metabolic profiling, and metabolic fingerprinting in various biological systems and samples. This metabolomics technology market majorly comprises detection techniques such as mass spectrometry (MS) and nuclear magnetic resonance spectroscopy (NMR), and separation techniques such as gas chromatography. These techniques are utilized in metabolome studies, primarily in toxicology testing and developing personalized medicine.

Market Dynamics

Drivers

- Availability of government and private funding
- Increasing pharmaceutical and biotech R&D expenditure
- Technological advancements
- Growing demand for personalized medicine
- Increasing use of metabolomics in toxicology testing

Restraints

- Issues related to data examination and processing
- High cost of tools and instruments

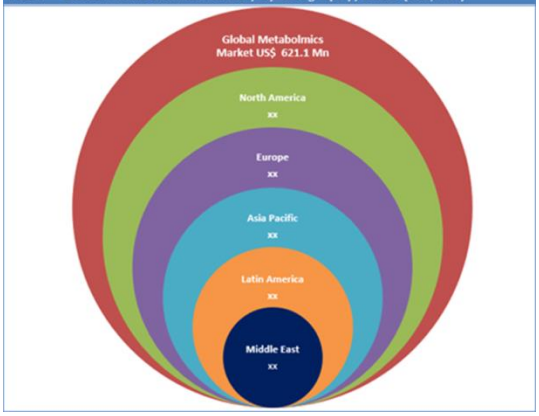
Opportunities

- Biomarker development
- Rapid growth opportunities in emerging markets

Challenges

- Complexity and diversity of biological samples
- Dearth of skilled researchers

FIG. 1 Global Metabolomics Market, by Geography, 2016 (US$ Mn)



Key Market Trend

A hyphenated technology is a combination of two or more analytical tools. Hyphenated technologies reduce cost by requiring the installation one instrument. They also provide ease of operation and require lesser space as compared to the installation of two or more standalone devices. In addition, these technologies have broadened the applications of analytical techniques within the analysis of biomaterials, especially natural products.

Target Audience:

- Life Sciences Instrumentation and Reagent Companies
- Metabolomics Database and Software Providers
- Metabolomics Service Providers
- Research and Consulting Firms

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• Academic Medical Centers/Government Research Organizations

• Clinical Research Institutes

• Instrument Manufacturers

• Consumable Manufacturers

• Third-party Instrumentation Suppliers

• Instrument Raw Material Suppliers

• Pharmaceutical, Biopharmaceutical, and Biotechnology Companies

• Food and Agricultural Industries

• Environment Protection and Forensic Institutes

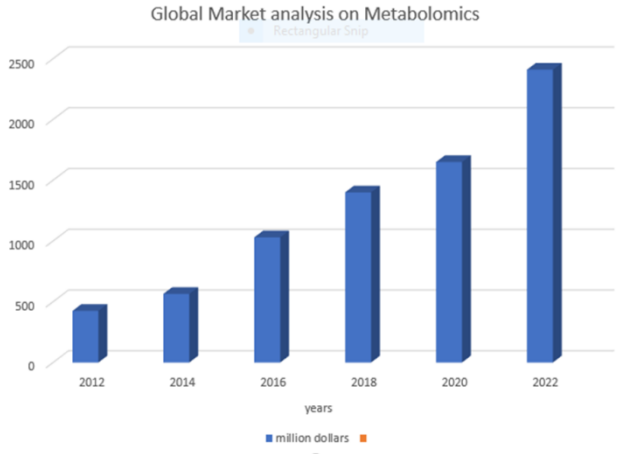
• Clinicians, Researchers, Hospitals, and Pharmaceutical Research Laboratories

• Government Bodies/Municipal Corporations

• Contract Research Organizations (CROs)

• Business Research and Consulting Service Providers

• Diagnostic Companies and Biomarker Service Providers



Asia pacific region to show high growth potential for Metabolomics Market

According to the Economist Intelligence Unit (EIU), healthcare spending in APAC is expected to grow at a rate of 7.1% from 2013 to 2017.This market forms one of the most promising metabolomics technology markets within the world accounting for the fastest rate of growth during the forecast period. This successively will create significant growth potential for market in APAC region over the approaching years.

Growing Demand for Personalized Medicine Metabolomics Market

The growing focus on personalized medicine has driven the use of metabolomics tools by manufacturers engaged in developing rigorous strategies for understanding the root of a disease rather than simply treating a patient's symptoms. Considering significant developments in the field of metabolomics, coupled with the increasing focus of industry participants to leverage the advantages of metabolomics approaches in the development of personalized medicine, the market is predicted to witness significant growth within the coming years.