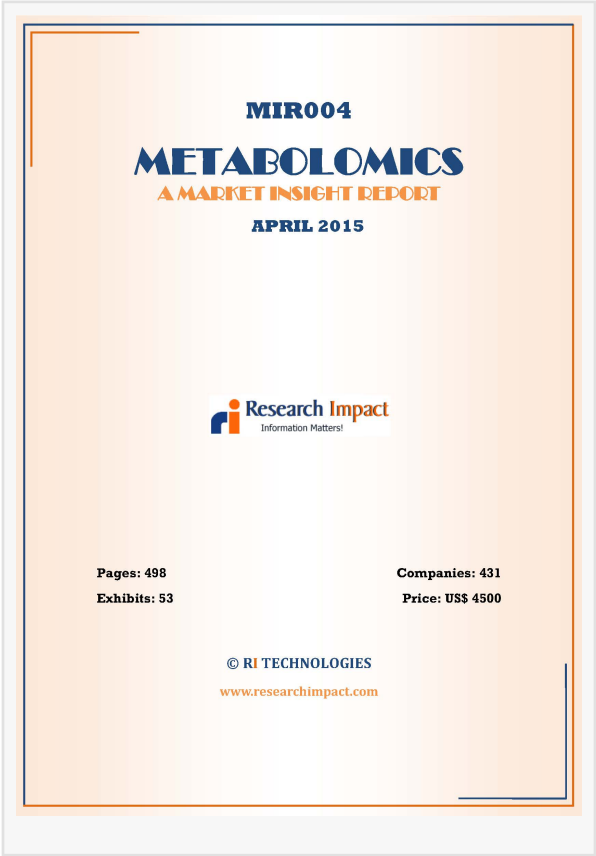
Metabolomics - Toxicology Studies - Pharma Industry Benefits Heavily - RI Technologies' Market Research Update

In early drug development stages, Metabolomics can reduce several trial-and-error methods for pharmaceutical companies, leading to savings in costs and efforts.



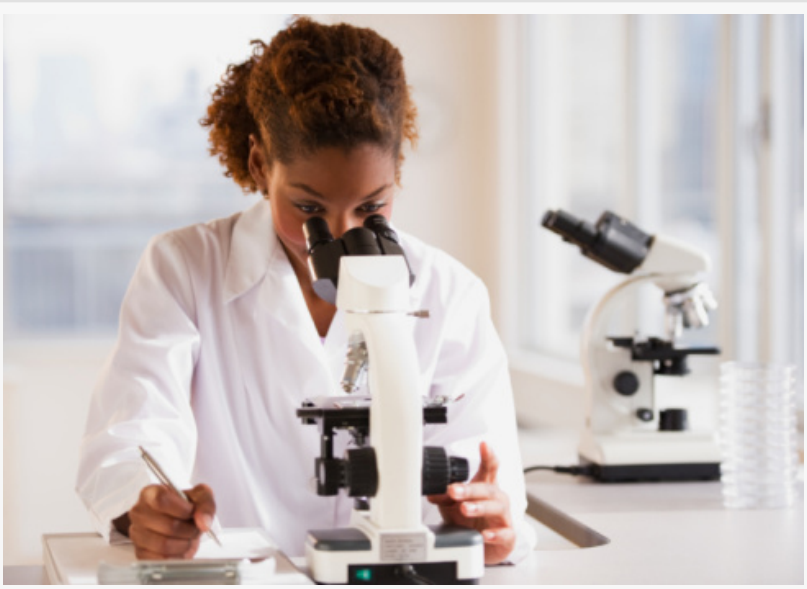
HYDERABAD, TELANGANA, INDIA, May 5, 2015 /EINPresswire.com/ -- RI Technologies' market research report on Metabolomics predicts the global market for Metabolomics to reach about US$10 billion by 2020. Metabolomics is expected to have wide ranging applications in bioenergy, environmental studies, functional genomics, secondary metabolism, genome-wide association mapping, systems biology and metabolic modeling in plant, algal, and microbial systems. However, the major challenges posed before the growth of metabolomics include – metabolomic defining, metabolite annotation, standardization, sampling, metabolite flux measuring, instrumentation, infrastructure, informatics and databases. Though metabolomics is still in evolution stage, biotechnology and pharmaceutical industries are expected to apply this technology more intensely in the near future. Metabolomics advantage is expected to provide effective results throughput the drug discovery and development process – the discovery, pre-clinical development, clinical trials and post market drug monitoring stages.

The report is available at http://www.researchimpact.com/life-science/report.php?link=metabolomics

> Metabolomics report will help Biotechnology & Healthcare Companies and Market Strategists to Identify Market Opportunities and Competition, and Know and Use Market Research for Exploring New Areas."
>
> *Anasuya Vemuri*

The report gives an insight into Metabolomics Technologies – Combined/Integrated Systems, Hardware Systems for metabolic analytics and Software Systems. The study includes estimates and projections for the total global metabolomics market. Projections and estimates are also illustrated by geographic region including the United States, Europe, Japan, Asia-Pacific, Canada and Rest of World. Business profiles of 28 major companies are discussed in the report. The report serves as a guide to global metabolomics industry, covering more than 400 companies that are engaged in metabolomics R&D and supply of products and services. Major Contract Research Organizations and Universities serving metabolomics industry are also covered in the Corporate Directory section of this report.

Information related to recent product releases, product developments, partnerships, collaborations, and mergers and acquisitions is also covered in the report.



Metabolomics research activities are gaining prominence day by day. Several institutes and research centers in the field of metabolomics are cropping up to explore the possibilities in the field of Metabolism and Structural Biology. These research organizations aim at bringing people from various fields in a single platform with an ultimate goal of developing metabolomics technology and integrating metabolomics with the broader universe of systems biology. Metabolite flux analysis, metabolic profiling, and biochemical modeling are some important activities in metabolomics research. For the past few years, the most commonly used methodologies in systems biology for exploring drug discovery have been genomics and proteomics. Now, metabolomics complements these two methods offering scientists a powerful tool that can uncover enormous amounts of information. The main difference between genomics/proteomics and metabolomics is that while the earlier methods studied genes and proteins, metabolomics focuses on metabolites, which are the substrates and end products of enzymatic reactions. Metabolites are compounds of low molecular weight, which determine the unique characteristics (phenotype) of an organism. This facilitates the identification of specific biological conditions, whether they are healthy or diseased. While work on detecting and quantifying several metabolites has been continuing for decades, it is only now that scientists are able to compile a complete metabolic profile of an organism. Today research in metabolomics is directed at tracing out specific metabolites corresponding with specific disease states to facilitate drug development.

Analytics and data presented in each report pertain to several parameters such as Global and Regional Market Sizes, Market Shares, Market Trends, Product (Global and Regional) Market Sizes, Market Shares, Market Trends, Technology Trends, Corporate Intelligence, Key Companies By Sales, Brands, Products, and Other Strategic Business Affecting Data.

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