Global Genomics and Proteomics Analytical Instruments Market 2014-2018

Description: About Global Genomics and Proteomics Analytical Instruments

Genomics is the study of the gene and its functions and proteomics is the study of the structure and functions of proteomes or sets of proteins by using molecular biology and bioinformatics tools and technology. Genomics involves the mapping of genes and DNA sequencing to understand the structure and functions of genomes. A proteome is a complete set of proteins expressed by a genome at a certain time. Proteomics primarily involves the use of molecular biology, biochemistry, and genetics to analyze proteins produced by genes through the translation process. Proteins are the primary component of all cells and are responsible for the various functional characteristics of cells. A defect in the genome or proteome structure or function could result in disorders. Thus, genomics and proteomics technologies play an important role in research, drug discovery, and disease diagnosis, which require the identification and study of the defective genome or proteins. It requires various instruments, reagents, and software for protein isolation, purification, identification, quantification, and analysis of the genome and proteome. There are several analytical instruments used for genomics and proteomics, but the instruments most widely used are chromatography systems, mass spectrometers, Polymerase Chain Reaction systems, and Next-generation Sequencing systems.

The analysts forecast the Global Genomics and Proteomics Analytical Instruments market will grow at a CAGR of 7.83 percent over the period 2013-2018.

Covered in this Report
The Global Genomics and Proteomics Analytical Instruments market can be divided into four segments: Chromatography, Polymerase Chain Reaction, Mass Spectrometry, and Next-generation Sequencing. This report covers the present scenario and the growth prospects of the Global Genomics and Proteomics Analytical Instruments market for the period 2014-2018. To calculate the market size, the report considers the revenue generated from the sales of analytical instruments in the above four segments.

The report, the Global Genomics and Proteomics Analytical Instruments Market 2014-2018, has been prepared based on an in-depth market analysis with inputs from industry experts. The report covers the Americas and the EMEA and APAC regions; it also covers the Global Genomics and Proteomics Analytical Instruments market landscape and its growth prospects in the coming years. The report also includes a discussion of the key vendors operating in this market.

Key Regions
- Americas
- EMEA
- APAC

Key Vendors
- Agilent Technologies Inc.
- Bio-Rad Laboratories Inc.
- F. Hoffmann-La Roche Ltd.
- Illumina Inc.
- PerkinElmer Inc.
- Thermo Fisher Scientific Inc.

Other Prominent Vendors
- Becton Dickinson and Co.
- Bruker Corp.
- GE Healthcare
- Jasco Inc.
- Jeol Ltd.
- Luminex Corp.
- Qiagen NV
- Rigaku Corp.
- Shimadzu Corp.
Key Market Drivers
- Advances in Genomics and Proteomics Technology
- For a full, detailed list, view this report.

Key Market Challenges
- Lack of Knowledge of Genomics and Proteomics
- For a full, detailed list, view this report.

Key Market Trends
- Focus on Drug Discovery and Disease Diagnosis
- For a full, detailed list, view this report.

Key Questions Answered in this Report
- What will the market size be in 2018 and what will the growth rate be?
- What are the Key Market Trends?
- What is driving this market?
- What are the challenges to market growth?
- Who are the key vendors in this market space?
- What are the market opportunities and threats faced by the key vendors?
- What are the strengths and weaknesses of the key vendors?
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