Protein Crystallization & Crystallography Market by Technology, Products & End-Users - Forecast to 2018

Description:

Protein crystallization & crystallography are techniques that are used very frequently by researchers to understand the three-dimensional structure of a protein. The market for protein crystallization & crystallography is expected to grow at a high rate owing to its huge potential in drug discovery and development.

This research report categorizes the protein crystallization & crystallography market on the basis of technologies (protein purification, protein crystallization, protein crystal mounting, and protein crystallography), products (analyzers and reagents), and end users (pharmaceutical companies, biotechnology companies, government institutes, and academic institutions). On the basis of technology, the protein crystallization segment accounted for the largest share—47%—of the market in 2013.

The growing need to identify new ligands for the drug discovery process and the rising popularity of structure-based/rational drug design are factors that present opportunities for the protein crystallization & crystallography market. The large numbers of ongoing research projects involving protein crystallization, and the increased variety of reagents and analytical techniques employed are also major drivers for the protein crystallography reagents market. However, low customer loyalty and company-specific reagents are factors that restrict the growth of this market.

Geographically, North America commanded the largest market share of the protein crystallization & crystallography market, followed by Europe. The availability of government and private funds, technological advancements, and growing research in the field of structure-based drug design are factors that are driving the market in these regions. However, the economic downturn and cuts in healthcare budgets are hampering the growth of the market. Countries like China and India will be the major contributors of growth for this market. Increasing investments by leading companies in these immature markets, and increase in research and development activities in these regions are driving the growth.

The deviations and overlap of revenues between the various segments of technology and products in number of sources were the major challenges faced while estimating the market size. They were overcome by the validating the data by a large number of industry experts and key opinion leaders.

From an insight perspective, this research report focuses on various qualitative aspects such as - industry, technology & trends, and company profiles, which together comprises the basic views on the competitive landscape, government initiative, drivers, restraints and opportunities, and key players in the protein crystallization & crystallography market. It also looks at the product portfolio, developments, and strategies to maintain and increase the market share in the near future. The report also concentrates on quantitative analyses like market share analysis, emerging and high growth segments of crystallization & crystallography (chromatography & X-ray crystallography), among others.

The market research data, current market size, and forecast of future trends mentioned above will help the key players and new entrants in the markets to make the necessary decisions regarding product offerings, geographic focus, change in strategic approach, R&D investment for innovation in products & technologies, and levels of output in order to remain successful.

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