

(Theme:Recent Advances in Crystallography for the Future prospects)

STUDY BACKGROUND

The Crystallization Market is segmented by technology, product, and end user. The market, by technology, is further segmented into protein purification, protein crystallization, protein crystal mounting, and protein crystallography. The Protein Crystallization segment accounted for the largest share of the protein crystallography market in 2013. However, the protein purification market will see the highest growth in the next five years.

North America is the largest revenue generator for the Crystallization & Crystallography Market, closely followed by Europe. Both markets have reached the maturity phase of growth and are estimated to register single-digit growth rates for the next five years. Asia projects a robust growth outlook during the analysis period, owing to growing urbanization, huge investment opportunities in these immature markets, and the growing number of research projects in these regions. Growth of the Protein Crystallization & Crystallography Market will be driven mainly by countries like China and India.

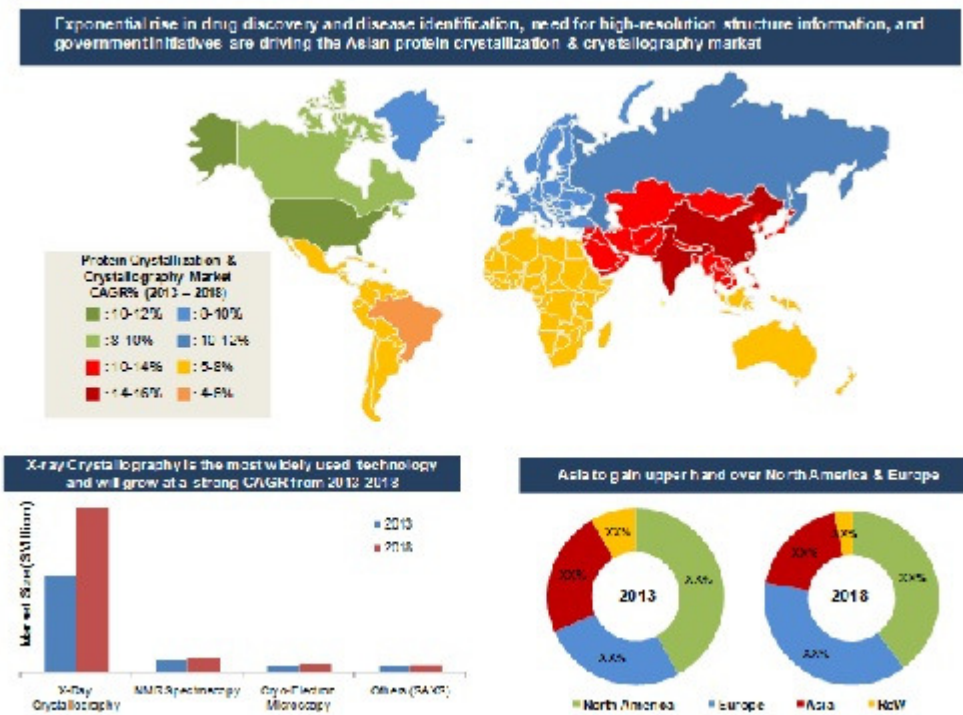
Factors propelling the growth of the Protein Crystallization & Crystallography Market include the increasing and immediate need for high-resolution information on protein structures, technological advancements, increasing government funding, and increasing R&D in the pharmaceutical and biotechnological arenas. On the other hand, factors restraining the growth of the market include dearth of qualified and experienced researchers, lack of generalized crystallization methods associated with the types of proteins, and highly time-consuming and expensive Protein Crystallization & Crystallography processes.

Emerging technologies like X-ray-free electron lasers, lab automation using liquid handling robotics, and automated workstations to reduce labor force and increase efficiency show promising prospects. The major players operating in the Protein Crystallization & Crystallography Market are Rigaku Corporation (Japan), Hampton Research (U.S.), Jena Bioscience GmbH (Germany), Molecular Dimensions Ltd. (U.K.), Formulatrix, Inc. (U.S.), Bruker Corporation (U.S.), and MiTeGen LLC (U.S.).

GLOBAL MARKET

In this era proteomics, protein crystallography the technique is Widely Used to Determine the Three-dimensional structure of the protein. The data generated from various methods: such as X-ray crystallography, NMR spectroscopy, cryo-electron microscopy, gel electrophoresis alone or in combination are used to Determine The Structure of protein. With the use of crystallography technique, the number of crystal structures in the PDB Deposited has Increased over the past few years.

Crystallography technique has wide application in many industries: such as Pharmaceutical, Cosmetic, as well as food. Despite the structural complexity of the protein, the crystallography technique Facilitates structure-based drug design to target biological molecules SPECIFICALLY. This technique has led to effective treatments for many diseases by discovery of new antibiotics, drugs, and vaccines. The analysts forecast the Global Protein Crystallization and Crystallography market to grow at a CAGR of 10.15 percent over the period 2013-2018. This report covers the Present scenario and the growth prospects of the Global Protein Crystallization and Crystallography market for the period 2014-2018. To calculate the market size, the report considers revenue generated from the sales of various methods used to Determine the Structure of a protein using crystallography techniques.



Present Market:

The research 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 2015.

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.

WHY Houston???

Houston is the populous city in Texas and the fourth most populous city in the United States. According to the 2012 U.S. Census estimates, the city had a population of 2.16 million people within a land area of 599.6 square miles. Houston is the seat of Harris County, and its metropolitan area is the fifth-most populated in the U.S. The city was named after former General Sam Houston, who was president of the Republic of Texas and had commanded and won at the Battle of San Jacinto 25 miles east of where the city was established. The burgeoning port and railroad industry, combined with oil discovery in 1901, has induced continual surges in the city's population. In the mid-twentieth century, Houston became the home of the Texas Medical Center—the world's largest concentration

of healthcare and research institutions—and NASA's Johnson Space Center, where the Mission Control Center is located. Houston is multicultural, in part because of its many academic institutions and strong industries as well as being a major port city.

Houston is recognized worldwide for its energy industry particularly for oil and natural gas as well as for biomedical research and aeronautics. Renewable energy sources wind and solar are also growing economic bases in Houston. The ship channel is also a large part of Houston's economic base.

Alive with energy and rich in diversity, Houston is a dynamic mix of imagination, talent and first-class attractions that makes it a world-class city. Home to a vibrant economy, beautiful surroundings and a population full of optimism and spirit, it's no wonder that Houston is a popular international destination. Of the 10 most populous U.S. cities, Houston has the most total area of parks and green space, The city also has over 200 additional green space totaling over 19,600 acres that are managed by the city including the Houston Arboretum and Nature Center.

Major Nanotechnology Associations around the Globe

British Crystallography Association (BCA)

Indian Crystallographic Association (ICA)

European Crystallographic Association (ECA)

French Crystallographic Association (FCA)

Asian Crystallographic Association (ACA)

Turkish National Crystallographic Association

Croatian Crystallographic Association

Czech and Slovak Crystallographic Association

Why to attend?

With members from around the world focused on learning about Nanotechnology engineering and Nano medicine this is your single best opportunity to reach the largest assemblage of participants from all over the world. Conduct demonstrations, distribute

information, meet with current and potential customers, make a splash with a new product line, and receive name recognition at this 3-day event.

World-renowned speakers, the most recent techniques, tactics, and the newest updates in fields crystallography and engineering, tissue engineering are hallmarks of this conference. Crystallography-2016 is an exciting opportunity to showcase the new technology, the new products of your company, and/or the service your industry may offer to a broad international audience. It covers a lot of topics and it will be a nice platform to showcase their recent researches on Crystallography, Material Science and other interesting topics.