

Global 3D Cell Culture Market Outlook:2015-2020

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Abstracts

The life sciences industry is witnessing a rapid transformation with the advent of new technologies such as 3D cell culture. The introduction of this promising technology has revolutionized the field of cancer drug discovery, tissue engineering, and stem cell research among many others. The rapid adoption of 3D cell culture technology has led to a shift in trend in both academic and industry areas to personalized research solutions and use of more in vivo like models to understand cell behavior. This is fueling the growing market need for better solutions in 3D cell culture.

The 3D cell culture market is valued at \$725 million in 2015, and estimated to grow at a CAGR of 30.6% from 2015 to 2020. This healthy growth rate demonstrates 3D cell culture technology as one of the fastest growing experimental approaches in life sciences. With the 3D cell culture technique coupled with advancements in cell imaging and analytical systems, as well as the introduction of new scaffolds and matrices; cells has led to more better and accurate experimental results. Such cultures have proven to be closer to in vivo natural systems, thus proving to be useful material for many applications leading to an increasing adoption of three dimensional models.

The research report on the 3D cell culture market provides comprehensive analysis of the global market with a regional level analysis and helps in understanding the driving forces for the growth of this market. The report also provides analysis of major technologies and product segments such as scaffold-free platforms, scaffold- based platforms, bioreactors, and microchips. The scaffold-free platforms market is further sub-segmented into low attachment surfaces, and hanging drop method. Similarly, the scaffold-based platforms market is further sub-segmented into hydrogels, porous scaffolds, and fibrous scaffolds. On the basis of application, the 3D cell culture market is segmented into five segments namely, clinical applications, drug discovery & toxicology, research (academic & basic laboratories), stem cell research, and tissue engineering. Market size estimates and forecasts for the period 2015 to 2020 has been provided for

each segment and its sub-segment, in terms of USD million, calculating growth rates from 2015 to 2020, considering 2014 as the base year for calculations. The global 3D cell culture market is segmented by geography as North America, Europe, Asia-Pacific, and Rest of the World (RoW). These regions analyzed with a detailed qualitative and quantitative insights.

North America is the major market in the global 3D cell culture market and is expected to dominate this market during the forecast period, followed by Europe, and Asia-Pacific. The major share of the North American market is attributed to increasing government support in the form of grants and funding, rising incidences of cancer, expanding biopharmaceutical industry, and launch of new products in the market. On the other hand, the Asian market, especially India, China, Taiwan, Malaysia, and Japan is expected to witness a boost in demand for 3D cell culture products and are poised to register maximum growth over the next five-six years, as a result of their economic development, rising awareness regarding cancer in these countries, huge production of drugs in this region, and the growing focus of 3D cell culture players in these markets.

As research demands have become increasingly complex, there is a rising need for better 3D cell culture techniques. Citing this, various companies are introducing 3D cell culture products using their own technologies. This competitive approach has led to rapid development of 3D cell culture products in the market. The 3D cell culture market is fragmented showing the presence of few large players and many small players. The major players in the global 3D cell culture market are BD Biosciences (U.S.), Thermo Fisher Scientific (U.S.) Corning Life Sciences (U.S.), Sigma-Aldrich (U.S.), and Lonza Group (Switzerland), among others.

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