Seattle, WA -- (SBWire) -- 10/10/2019 -- Cell-based assays are analytical tools designed to study mechanism or process of cellular function. This includes intact or fixed cells and are crucial in understanding cellular mechanism in biological context. Several types of assays are used to measure motility, toxicity, cell proliferation, production of a measurable product, and morphology. Cell-based assays offer preciseness in extracting the data of various parameters of the real-life model as live cells are used, cell-based assays are now used in drug discovery, and checking the toxicity of new or old drugs used by population.

Significant growth of pharmaceutical and biotechnological sector across the globe and development of new drugs is expected to boost the demand for cell-based assay. Key players in the market are adopting the cell-based assay, in order to reverse the expensive late-stage drug failure. Therefore, these factors are expected to drive growth of global cell-based assay market during the forecast period.

Cumulative growth in drug discovery is expected to boost global cell-based assay market growth over the forecast period.

Increasing drug discoveries worldwide is expected to boost the demand for cell-based assay, as it find applications in detection of toxicity of drugs. For instance according to The U.S. Food and Drug Administration's (FDA) Center for Drug Evaluation and Research (CDER), in 2016, the agency approves around 30 novel drugs annually and the development of novel drug discovery is expected to increase in future. Furthermore, key players in the market are focused on drug discovery, which needs cell-based assay for testing new drugs, which in turn, is expected to boost the global cell-based assay market growth during the forecast period.

The pharmaceutical market has become a billion-dollar business due to which many pharmaceutical and biotechnological companies are adopting cell-based assay, in order to decrease the chances of failure of batch which leads to a high loss to company. Therefore, high adoption of this method by key companies in the market is expected to drive the market growth in the near future. However, high maintenance, need for skilled personnel, and high-cost of operation for the cell-based assays are expected to restrain the global cell-based assay market during the forecast period.

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Market Taxonomy:
On the basis of product, the global cell-based assay market is segmented into:
Cell Lines
Microplates
Instruments
Software
Reagents and Assay Kits
Others

On the basis of application, the global cell-based assay market is segmented into:
Drug Discovery
Predictive Toxicology
ADME Process
Others

On the basis of end-user, the global cell-based assay market is segmented into:
Pharmaceutical companies
Biotechnology Companies
Research Organizations
Government & Academic Institutes
Others

In 2016, DiscoverX Corporation, a supplier of cell-based assay, launched InCELL Pulse target engagement platform that provides scientists with the ability to generate their own cell-based target engagement assays for confirming compound cell entry and target binding in the native cellular environment.


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