Cell Analysis Market Global Segmentation, key Players, Analysis and Forecast 2023

The cell analysis market is expected to grow at high single digit CAGR to reach $47,088 million by 2023

PUNE, INDIA, January 6, 2017 /EINPresswire.com/ -- [Cell Analysis](#):

Cells are the biological units that are used for the identification and mapping of the basic biochemical and physical processes of life. Analysis of these cells plays a major role in gene identification, protein identification, transcription analysis and epigenomics at the cellular level by revealing the heterogenocity of the the cells. Hospitals, academic institutions, government institutes, as well as pharmaceutical and biotechnology firms are increasing their focus on the application of cell analysis as a modern emerging tool in research, drug discovery and diagnosis. The cell analysis techniques global market is segmented into molecular approaches and image-based approaches. The molecular approaches include the PCR, sequencing techniques, microarray and microfluidics, cell isolation and separation techniques performed at cells genomic level. Real-time PCR and Digital PCR are the two PCR techniques. Sequencing techniques are segmented into DNA sequencing, RNA sequencing, and protein sequencing. Cell isolation and separation techniques include centrifugation, cell surface based separation, filtration based cell separation and other separation techniques. Microcentrifugation, high-speed centrifugation, and ultracentrifugation are the types of the centrifugation process. Among molecular approaches PCR accounted for the largest share and sequencing is expected to grow at highest CAGR from 2016-2023.

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This image-based approach of cell analysis technology global market is segmented into microscopy, cytometry, high content screening, FISH, and Spectrophotometers. Microscopy types are optical microscopy, electron microscopy and scanning probe microscopy (SPM). Under optical microscopy, the types are fluorescence microscopy and confocal microscopy. Stimulated Emission Depletion (STED), Total Internal Reflection Fluorescence (TIRF), Fluorescence Recovery after Photobleaching (FRAP) and Laser Capture Microdissection are the types of fluorescence microscopy. Under electron microscopy, the types are Scanning Electron Microscope (SEM), Transmission Electron Microscopy (TEM) and Cryo-Electron Tomography (Cryo-ET). Among image based approaches Cytometry generated the largest revenue and FISH is expected to grow at double digit CAGR from 2016-2023.

The cell analysis products market is mainly segmented into consumables, instruments, software and services. The consumables include reagents, assay plates, microplates, cell culture consumables and others. The instrument segment comprises of cell counters, microscopes, cell isolation and separation instruments, cytometers, spectrophotometer, Sequencing instruments, PCR devices, microfluidic devices, high content screening (HCS) systems and cell microarrays. Cell counters types are hemocytometers, automated cell counters, coulter counters and others cell counters. Cytometers types are flow cytometers, laser scanning cytometer, and imaging cytometer. Spectrophotometers include microplate readers, fluorescent spectrophotometers and calorimeters. Microscopes types are electron microscopes, inverted microscopes, stereo microscopes, fluorescence and confocal

microscopes, phase contrast microscopes and other microscopes.

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By application, the market is segmented into by processes, by field, and by therapeutic area. By process of application, the market is segmented into cellular processes, signal transduction pathways, circulating tumor cells, single cell analysis, epigenetic target analysis, subpopulation characterization, and drug and candidate screening. Cellular process application accounted for a largest revenue and the single cell analysis market is expected to boom at a high CAGR from 2016-2023. By field of application, the market is further segmented into forensic, therapeutics, cell imaging, biomarker research, genomic analysis, stem cell analysis, and diagnostics. Diagnostics is holding the largest revenue in 2016 and stem cell analysis is expected to grow at a high CAGR from 2016-2023. By therapeutic area, the market is further segmented into cancer research, infectious disease diagnosis, genetic testing, immunology, and others. The immunology accounted for largest revenue in 2016 and genetic testing is expected to grow at a strong CAGR from 2016-2023.

By end-users, the market is segmented into hospitals, academic and research institutes, contract research organizations (CROs), pharmaceuticals and biotechnology companies, cell banks, diagnostic laboratories and others. Academic and research institutes generated the largest revenue in 2016 and the Contract Research Organizations are expected to grow at high CAGR from 2016-2023

By geography, the market is segmented into North America, Europe, Asia-Pacific and Rest of World. North America holds the largest market share in 2016, followed by Europe and Asia. The APAC regions tend to be an emerging market with an opportunity for growth with a highest CAGR from 2016-2023 and are likely to be a destination of investment for new investors in the cell analysis market. Drug discovery services outsourcing and government funding for novel screening technologies have resulted in a growth of Asian markets.

The cell analysis market is expected to grow at high single digit CAGR to reach $47,088 million by 2023. The major factor influencing the growth is enhanced precision of cell imaging and analysis systems which in turn reduce time and cost of drug discovery process. In addition, the factors like increasing incidence of cancer, increasing government investments, funds, and grants, availability of reagents and cell analysis instruments are driving the growth of the market. However, the major market restraints include high capital investments and a shortage of skilled labor for the high content screening procedure. The biggest opportunities for this market is the emerging APAC market, high content screening services provided by contract research organizations, automation in cancer research for its early diagnosis and reduction of cost in the cancer treatment.

The cell analysis global market is a competitive and all the active players in this market are involved in innovating new and advanced products to maintain their market shares. The key players in the cell analysis global market include Agilent Technologies, Inc. (U.S.), Becton Dickinson and Company (U.S.), Bio-Rad Laboratories (U.S.), Danaher Corporation (U.S.), GE Healthcare (U.K.), Merck KGAA (Germany), Olympus Corporation (Japan), PerkinElmer, Inc. (U.S.), Promega Corporation (U.S.), Qiagen N.V. (Netherlands) and ThermoFisher Scientific, Inc. (U.S.). In order to offer the products with better software, most of the players in the cell analysis market are collaborating with companies and educational institutions.

The report provides an in depth market analysis of the above mentioned segments across the following regions:

North America

Europe
Asia-Pacific
Rest of the World (RoW)
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