

Molecular Cytogenetics Market by Product (Kits, Reagents, Probes, Instrument, Software, Services), Technique (FISH, CISH, Comparative Genomic Hybridization (Array-based, Standard)), Application (Cancer, Genetics Disorders) - Global Forecast to 2028

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Abstracts

The molecular cytogenetics market is valued at an estimated USD 3.1 billion in 2023 and is projected to reach USD 4.9 billion by 2028, at a CAGR of 9.9% during the forecast period. Increasing in the incidence of chronic diseases like cancer and genetic diseases has lead to the increase in prevalence of the diagnosis of the diseases at earlier stage and diagnosis of the core cause of disease. Urgent and timely treatment is required to manage these patients. The overall increase in the number of research and diagnostic procedures is leading to the increased adoption of molecular cytogenetics in order to ensure the accurate diagnosis of the diseases. This is driving the overall growth of the market.

“Kits & Reagents segment accounted for the highest growth rate in the molecular cytogenetics market, by product, during the forecast period.”

The molecular cytogenetics market is bifurcated into kits & reagents, instruments, consumables and software & services on the basis of product. The kits & reagents segment in the molecular cytogenetics market is experiencing substantial growth, largely driven by the increasing incidence of diseases such as cancers and increasing focus on personalized medicines.

“Comparative genomic hybridization segment accounted for the highest growth rate in the molecular cytogenetics market, by technique, during the forecast period.”

The molecular cytogenetics market is bifurcated into comparative genomic hybridization, fluorescence in-situ hybridization, chromogenic in-situ hybridization and other techniques on the basis of technique. The comparative genomic hybridization segment in the molecular cytogenetics market is experiencing substantial growth, largely driven by the increasing penetration of molecular cytogenetics in clinical pathology and research.

“Cancer segment accounted for the highest growth rate in the molecular cytogenetics market, by applications, during the forecast period.”

The global molecular cytogenetics market is bifurcated into genetic disorders, cancer, personalized medicine and other applications. The cancer segment is currently witnessing the highest growth rate within the molecular cytogenetics market. The rising geriatric population and rising incidence of cancer due to genetic changes are the major factors driving this segment's growth.

“Clinical & research laboratories segment accounted for the highest CAGR”

Based on end users, the molecular cytogenetics market is segmented into clinical & research laboratories, academic research institutes, pharmaceutical & biotechnology companies and other end users. In 2022, the clinical & research laboratories segment accounted for the highest growth rate. This can be attributed to the increased demand for advanced cytogenetics products for disease diagnosis.

“Asia Pacific: The fastest-growing region molecular cytogenetics market”

The global molecular cytogenetics market is segmented into North America, Europe, Asia Pacific, Latin America, and the Middle East & Africa. The Asia Pacific region is projected to register the highest CAGR during the forecast period. Anticipated growth in this region will primarily focus on China and Japan. Factors such as a growing elderly population, rising cancer prevalence, increased healthcare expenditures, higher per capita income, escalating demand for advanced technology, the expansion of private healthcare sectors across several APAC nations, and the existence of rapidly developing markets are steering the market's growth in this region.

The break-up of the profile of primary participants in the molecular cytogenetics market:

By Company Type: Tier 1 - 40%, Tier 2 - 30%, and Tier 3 – 30%

By Designation: C-level - 27%, D-level - 18%, and Others - 55%

By Region: North America - 51%, Europe - 21%, Asia Pacific - 18%, Latin America – 6%, and Middle East & Africa- 4%

The key players in this market are Thermo Fisher Scientific Inc. (US), Illumina Inc. (US), Danaher Corporation (US), F. Hoffmann-La Roche Ltd. (Switzerland), Revvity (US), Abbott Laboratories (US), Agilent Technologies, Inc. (US), Pacific Biosciences (US), Bio-Rad Laboratories, Inc. (US), Bio-Techne Corporation (US), GeneDx (US), Oncocyte Corporation (US), BioView (Israel), Oxford Gene Technology IP, Limited. (UK), Applied Spectral Imaging, Inc. (US), Cyto-Test Inc. (US), KromaTiD, Inc. (US), Genial Genetic Solutions, Ltd. (UK), Cytogenomix, Inc. (Canada), MetaSystems (Germany), SciGene (US), Biomodal (UK), Biocare Medical (US), BioDot (US), OncoDNA (Belgium).

Research Coverage:

This research report categorizes the molecular cytogenetics market by product (kits & reagents, instruments, consumables and software & services), technique (comparative genomic hybridization, fluorescence in-situ hybridization, chromogenic in-situ hybridization and other techniques), application (genetic disorders, cancer, personalized medicine and other applications), end user (clinical & research laboratories, academic research institutes, pharmaceutical & biotechnology companies and other end users), and region (North America, Europe, Asia Pacific, Latin America, and the Middle East & Africa). The scope of the report covers detailed information regarding the major factors, such as drivers, restraints, opportunities and challenges, influencing the growth of the molecular cytogenetics market. A detailed analysis of the key industry players has been done to provide insights into their business overview, solutions and services, key strategies, acquisitions, and agreements. New product launches and recent developments associated with the molecular cytogenetics market. Competitive analysis of upcoming startups in the molecular cytogenetics market ecosystem is covered in this report.

Reasons to buy this report:

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall molecular cytogenetics market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their

businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, opportunities and challenges.

The report provides insights on the following pointers:

Analysis of key drivers (increasing incidence of cancer and genetic disorders, growing focus on targeted cancer treatment, rapid growth in aging population and subsequent increase in prevalence of chronic diseases, increasing penetration of molecular cytogenetics in clinical pathological testing), restraints (high cost of advanced instruments, unfavorable reimbursement scenario), opportunities (untapped emerging markets in Asia) and challenges (transition from FISH to array-based techniques) influencing the growth of the molecular cytogenetics market.

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product launches in the molecular cytogenetics market.

Market Development: Comprehensive information about lucrative markets – the report analyses the molecular cytogenetics market across varied regions.

Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the molecular cytogenetics market

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like F. Hoffmann-La Roche Ltd. (Switzerland), Danaher Corporation (US), Agilent Technologies, Inc. (US), Abbott Laboratories (US), Thermo Fisher Scientific Inc. (US), among others in the molecular cytogenetics market strategies.

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*Details on Business Overview, Products Offered, Recent Developments, MnM View, Right to win, Strategic choices made, Weaknesses and competitive threats might not be captured in case of unlisted companies.

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