

North America Fluorescence In-Situ Hybridization (Fish) Imaging Systems Market Forecast to 2030 – Regional Analysis – By Product (Instruments, Consumables, Accessories, and Software), Application (Cancer Diagnosis, Genetic Disease Diagnosis, Infectious Disease Diagnostic, and Others), and End User (Diagnostic Laboratories, Contract Research Organizations, Pharmaceutical and Biotechnological Companies, and Others)

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Abstracts

The North America fluorescence in-situ hybridization (FISH) imaging systems market is expected to grow from US\$ 507.0 million in 2022 to US\$ 885.4 million by 2030. It is estimated to grow at a CAGR of 7.2% from 2022 to 2030.

Automation and Digitalization of Fish Imaging Technique Fuel North America Fluorescence In-Situ Hybridization (Fish) Imaging Systems Market

An automated FISH enumeration system facilitates the automatic detection and counting of FISH signals generated by interphase nuclei in formalin-fixed, paraffin-embedded human tissue specimens. This system consists of standard hardware components, including an automated scanning microscope and an image analysis system, and software platforms with FISH assay-specific applications (apps).

Automated FISH enumeration systems are designed to be used with FISH assays for IVD purposes to identify, count, and classify cells based on their size, shape, and colour. Adopting automated technologies may result in reduced hands-on time compared to manual FISH test enumeration systems. FISH is a gold standard method for diagnostics owing to the ease of use and the ability to provide same-day results after sample collection. The automation of FISH imaging with reduced probe volumes and

less hands-on time is likely to further fuel the application of FISH testing in clinical and research laboratories soon, ultimately driving better patient outcomes. Integrating FISH imaging with digital pathology platforms would facilitate remote collaboration among experts and open avenues for telepathology. Advancements in imaging technologies are likely to result in higher-resolution imaging, improved fluorophores, and sophisticated image analysis algorithms, fostering precise genetic visualization and enhancing FISH imaging tools. In the future, FISH technology is anticipated to play an important role in personalized medicine, aiding in tailoring treatment strategies based on individual genetic profiles. The integration of AI and machine learning, offering insights from vast datasets and predicting disease outcomes, would further amplify the diagnostic potential of FISH imaging. Thus, automation and digitalization are likely to emerge as significant trends in the fluorescence in situ hybridization (FISH) imaging systems market.

North America Fluorescence In-Situ Hybridization (Fish) Imaging Systems Market Overview

The North American North America Fluorescence In-Situ Hybridization (FISH) Imaging Systems Market is segmented into the US, Canada, and Mexico. An increase in the prevalence of target disorders propels the need for clinical urgency alternatives, which drives the market growth in the region. The growing demand for advanced diagnostic tools in molecular genetics and cytogenetics and the rising prevalence of genetic disorders and cancer fuel the adoption of fluorescence in-situ hybridization (FISH) imaging systems. As per data published by the American Cancer Society in 2022, in US there are around 1.9 million new cancer cases diagnosed and 609,360 cancer deaths. These systems offer high-resolution imaging of genetic material, enabling researchers and clinicians to detect chromosomal abnormalities and gene mutations with greater accuracy. Furthermore, the increasing focus on personalized medicine and targeted therapies has led to an upsurge in research activities involving genetic analysis, bolstering the demand for FISH imaging systems. The ability of these systems to provide detailed spatial information on gene sequences directly within cells has proven invaluable in both research and clinical applications. The popularity of technological advancements in FISH imaging systems, such as improved automation, higher throughput, and enhanced image analysis software, has also increased in recent years. As a result, laboratories and medical institutions are better equipped to handle larger volumes of samples and generate precise results efficiently.

North America Fluorescence In-Situ Hybridization (Fish) Imaging Systems Market Revenue and Forecast to 2030 (US\$ Million)

North America Fluorescence In-Situ Hybridization (Fish) Imaging Systems Market Segmentation

The North America fluorescence in-situ hybridization (FISH) imaging systems market is

segmented into product, application, end users and country.

Based on product, the North America fluorescence in-situ hybridization (FISH) imaging systems market is segmented into instruments, consumables, accessories, and software. The consumables segment held the largest share of the North America fluorescence in-situ hybridization (FISH) imaging systems market in 2022.

In terms of application, the North America fluorescence in-situ hybridization (FISH) imaging systems market is segmented into cancer diagnosis, genetic disease diagnosis, infectious disease diagnostic, and others. The cancer diagnosis segment held the largest share of the North America fluorescence in-situ hybridization (FISH) imaging systems market in 2022.

Based on end user, the North America fluorescence in-situ hybridization (FISH) imaging systems market is segmented into diagnostic laboratories, contract research organizations, pharmaceutical and biotechnological companies, and others. The diagnostic laboratories segment held the largest share of the North America fluorescence in-situ hybridization (FISH) imaging systems market in 2022.

By country, the North America fluorescence in-situ hybridization (FISH) imaging systems market is segmented into the US, Canada, and Mexico. The US dominated the North America fluorescence in-situ hybridization (FISH) imaging systems market in 2022.

Euroclone SpA, TissueGnostics GmbH, Agilent Technologies Inc, Abnova Taiwan Corp, BioGenex Laboratories Inc, Leica Biosystems Nussloch GmbH, MetaSystems Probes GmbH, Bio-View Ltd, Thermo Fisher Scientific Inc, and Applied Spectral Imaging are some of the leading companies operating in the North America fluorescence in-situ hybridization (FISH) imaging systems market.

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