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Global In-situ Hybridization (ISH) Market Growth (Status and Outlook) 2024-2030

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Abstracts

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According to this study, the global In-situ Hybridization (ISH) market size will reach US$ million by 2030.

In situ hybridization (ISH) is a type of hybridization that uses a labeled complementary DNA, RNA or modified nucleic acids strand (i.e., probe) to localize a specific DNA or RNA sequence in a portion or section of tissue (in situ), or, if the tissue is small enough (e.g., plant seeds, Drosophila embryos), in the entire tissue (whole mount ISH), in cells, and in circulating tumor cells (CTCs).

In situ hybridization is used to reveal the location of specific nucleic acid sequences on chromosomes or in tissues, a crucial step for understanding the organization, regulation, and function of genes. The key techniques currently in use include: in situ hybridization to mRNA with oligonucleotide and RNA probes (both radio-labelled and hapten-labelled); analysis with light and electron microscopes; whole mount in situ hybridization; double detection of RNAs and RNA plus protein; and fluorescent in situ hybridization to detect chromosomal sequences. DNA ISH can be used to determine the structure of chromosomes. Fluorescent DNA ISH (FISH) can, for example, be used in medical diagnostics to assess chromosomal integrity. RNA ISH (RNA in situ hybridization) is used to measure and localize RNAs (mRNAs, lncRNAs, and miRNAs) within tissue sections, cells, whole mounts, and circulating tumor cells (CTCs).

This report presents a comprehensive overview, market shares, and growth opportunities of In-situ Hybridization (ISH) market by product type, application, key players and key regions and countries.

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Segmentation by product type:

- Fluorescence In Situ Hybridization (FISH)
- Chromogenic In Situ Hybridization

Segmentation by Application:

- Molecular Diagnostic Laboratories
- Pharmaceutical & Biotechnology Companies
- Contract Research Organizations (CROs)
- Academic & Research Institutions

This report also splits the market by region:

- United States
- China
- Europe
- Other regions:
  - Japan
  - South Korea
  - Southeast Asia
  - Rest of world

The report also presents the market competition landscape and a corresponding

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detailed analysis of the major players in the market. The key players covered in this report:

ABBott Laboratories

F.Hoffmann-La Roche

Thermofisher Scientific

Merck

Agilent Technologies

Perkin Elmer

Danaher Corporation

Exiqon

Biogenex Laboratories

Advanced Cell Diagnostics

Bio SB

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