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Biologie : Zellbiologie

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Fluorescence In Situ Hybridization (FISH)

Application Guide

- Offers readily reproducible, step-by-step laboratory methods
- Features easy-to-follow recipes to promote successful results
- Includes sections on interpreting and evaluating results, as well as troubleshooting advice for each protocol
- Includes brilliant color photos showing the results of fluorescence in situ hybridization on various tissues

This manual offers detailed protocols for fluorescence in situ hybridization (FISH) and comparative genomic hybridization approaches, which have been successfully used to study various aspects of genomic behavior and alterations. Methods using different probe and cell types, tissues and organisms, such as mammals, fish, amphibians (including lampbrush-chromosomes), insects, plants and microorganisms are described in 57 chapters. In addition to multicolor FISH procedures and special applications such as the characterization of marker chromosomes, breakpoints, cryptic aberrations, nuclear architectures and epigenetic changes, as well as comparative genomic hybridization studies, this 2nd edition describes how FISH can be combined with other techniques. The latter include immunostaining, electron microscopy, single cell electrophoresis and microdissection. This well-received application guide provides essential protocols for beginning FISHERS and FISH experts alike working in the fields of human genetics, microbiology, animal and plant sciences.

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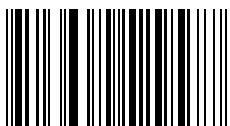
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