

in situ HYBRIDIZATION in ELECTRON MICROSCOPY

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Molecular biology has been at the cutting edge of research in biological science for some time and the technique of *in situ* hybridization has been widely used. *In Situ Hybridization In Electron Microscopy* demonstrates the scope that this technique can offer in characterizing and visualizing specific nucleic acid sequences in tissues and at the subcellular level. It provides the definitive guide to the main methods developed for the ultrastructural visualization of these genes and their expression within the cell compartments including the cytological characterization of the cells.

The book combines theory and practice, starting with the basic principles, then breaking down the experimental process into successive steps illustrated by numerous diagrams, detailed protocols, and tables for use in choosing the appropriate protocol. This is all done in a format that uses parallel columns to convey practical comments and advice. Separate appendices provide information on the preparation of the equipment and reagents.

Features

- Provides techniques and protocols for visualizing specific nucleic acid sequences in individual cell in tissue section, single cells, or chromosome preparations through electron microscopy
- Presents principles of methodology and practical protocols, along with specific comments in a two-column user friendly format.
- Includes chapters on tissue preparation, section preparation, pretreatment, hybridization, controls and problems, and protocol types.

Featuring nearly 150 figures and tables, a glossary and index, *In Situ Hybridization In Electron Microscopy* is an important book for both the experienced researcher and the novice.



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