



Imaging of Nucleic Acids and Quantitation in Photonic Microscopy (Methods in Visualization)

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Visualization of nuclear components has added tremendously to our understanding of the nucleus and its chemistry. The fluorescence approach is considered the present-day standard for comprehending nuclear organization. Imaging of Nucleic Acids and Quantitation in Photonic Microscopy provides new technologies in fluorescence microscopy and image cytometry, along with their uses in imaging and quantification fluorescence in in situ hybridization.

Written by researchers with extensive experience in the use of photonic microscopy in nucleic acid research, the chapters examine such topics as: fixation; nucleotide substitution; fluorochrome properties; chemically modified nucleotides and methods of incorporation; single cell gel electrophoresis (comet assay) to detect DNA lesions; fluorescent imaging for in situ study of nuclear distribution and colocalization of molecules (FISH mapping); clarification of the fluorescence microscope and light captors; visualization and processing of 3-D data sets; image acquisition and quantification, along with examples; and more.

The chapters were each written by authorities on the particular subjects. In a two-column format, the theory and protocol are placed alongside comments and observations resulting from their experience. The comprehensible explanations of concepts together with the detailed procedures make Imaging of Nucleic Acids and Quantitation in Photonic Microscopy indispensable to your understanding and application of these valuable techniques.

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