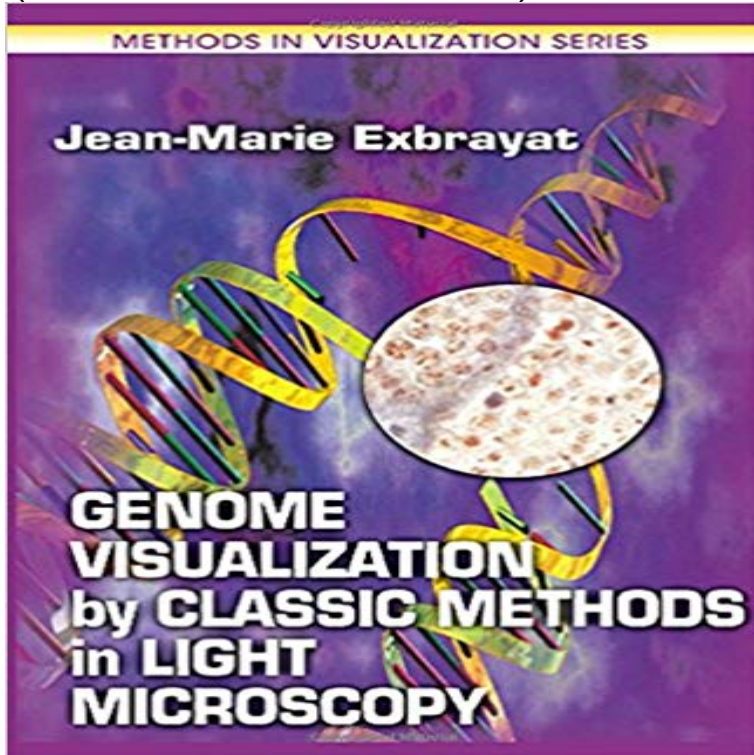


# Genome Visualization by Classic Methods in Light Microscopy (Methods in Visualization)



Visualization of nucleic acids has become indispensable to studying cells, tissues, and organisms. Certain techniques even permit quantification of DNA and/or RNA distribution in tissues, but few current analytical books cover the numerous methods for DNA and RNA visualization. This book provides insight into several classic techniques, histological as well as histochemical, that can be used to appreciate the nucleic acid status of the cell as well as to provide an overview of RNA and DNA distribution in cells and tissues. Genome Visualization by Classic Methods in Light Microscopy begins with an introduction to DNA and RNA, followed by general visualization principles. The subsequent chapters describe: how to prepare tissues for staining; the principles, chemical formulas, and procedures for nuclear dye, fluorescent dye, and histochemical methods; directions to observe the products of the stained reactions; and more. Each protocol is presented as easy-to-follow directions and the author includes cautionary notes and points to consider. The final section provides color photographs of various tissues in which the staining method, fixative, and observations are noted. A theoretical and practical book, Genome Visualization by Classic Methods in Light Microscopy allows you to understand which technique is most useful for your particular problem. Laboratory protocols are provided for you to follow, chemical structures and principles are provided for you to understand the technique, and the book is organized so you can find the necessary information when needed. This is the essential guide to understanding and executing visualization techniques for nucleic acids.

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