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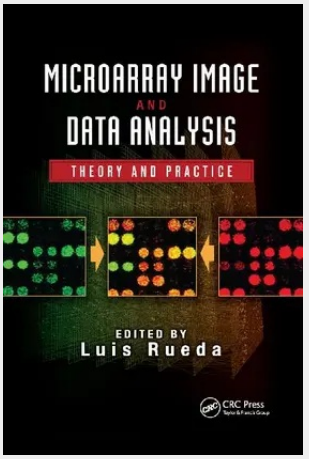
Microarray Image and Data Analysis

Theory and Practice



Microarray Image and Data Analysis: Theory and Practice is a compilation of the latest and greatest microarray image and data analysis methods from the multidisciplinary international research community. Delivering a detailed discussion of the biological aspects and applications of microarrays, the book: - Describes the key stages of image processing, gridding, segmentation, compression, quantification, and normalization - Features cutting-edge approaches to clustering, biclustering, and the reconstruction of regulatory networks - Covers different types of microarrays such as DNA, protein, tissue, and low- and high-density oligonucleotide arrays - Examines the current state of various microarray technologies, including their availability and affordability - Explains how data generated by microarray experiments are analyzed to obtain meaningful biological conclusions An essential reference for academia and industry, Microarray Image and Data Analysis: Theory and Practice provides readers with valuable tools and techniques that extend to a wide range of biological studies and microarray platforms.

This book is a compilation of the latest microarray image and data analysis methods from the multidisciplinary international research community. Delivering a detailed discussion of the biological aspects and applications of different types of microarrays, it examines the current state of microarray technology and describes the key stages of image processing, gridding, segmentation, compression, quantification, and normalization. Featuring cutting-edge approaches to clustering and the reconstruction of regulatory networks, the book explains how data generated by microarray experiments are analyzed to obtain meaningful biological conclusions.

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