

Microarrays

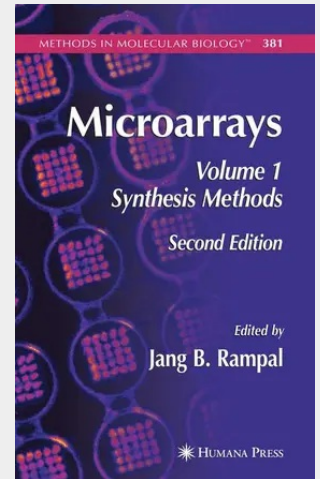
Volume I: Synthesis Methods

Microarray Technology, Volumes 1 and 2, present information in designing and fabricating arrays and binding studies with biological analytes while providing the reader with a broad description of microarray technology tools and their potential applications. The first volume deals with methods and protocols for the preparation of microarrays. The second volume details applications and data analysis, which is important in analyzing the enormous data coming out of microarray experiments.

Among the topics discussed in Volume 1: Synthesis Methods, are matrices in the synthesis of microarrays, array optimization processes, array-based comparative genomic hybridization, 60-mer oligonucleotide probes, bifunctional reagents NTMTA and NTPAC, and high density arrays using digital microarray synthesis platforms. Other topics include multiplex ligation-dependent probe amplification (MLPA), hybridization conditions in situ-synthesized oligo arrays, peptide arrays, high density replication tools (HDRT), protocols for the quantification of oligo hybridization, glyco-bead arrays, and an investigation into the emerging nano technology.

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