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METHODS OF MICROARRAY DATA ANALYSIS IV is the fourth book in this series, and focuses on the important issue of associating array data with a survival endpoint. Previous books in this series focused on classification (Volume I), pattern recognition (Volume II), and quality control issues (Volume III).

An Introduction to Microarray Data Analysis

Singular Value Decomposition (SVD) and the closely related Principal Component Analysis (PCA) methods were first introduced to microarray analysis by Alter et al. in their analysis of the Stanford yeast cell cycle data.

In this chapter, we use Bioconductor analysis packages on a heart development dataset to demonstrate the workflow of microarray data analysis from annotation, normalization, expression index calculation, and diagnostic plots to pathway analysis, leading to a meaningful visualization and interpretation of the data.

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Analysis of microarray data Microarrays can be used in many types of experiments including genotyping, epigenetics, translation profiling and gene expression profiling. Gene expression profiling is by far the most common use of microarray technology. Both one- and two-colour microarrays can be used for this type of experiment.

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Microarray analysis is an increasingly important tool for the elucidation of molecular pathways that lie downstream of key transcriptional regulators of cardiac development and CHD, including Nkx2-5, Tbx5, and GATA6. From: Essentials of Genomic and Personalized Medicine, 2010

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