



# Microarray Data Analysis and Visualization

*Arun Jagota*

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## **Microarray Data Analysis and Visualization** Arun Jagota

Gene chips are enabling the simultaneous monitoring of the expression levels of thousands of genes. This revolutionary technology holds great potential for the diagnosis and treatment of disease. It also has, obviously, immense scientific value, in facilitating studies of the expression levels of all genes in a genome.

To realize the benefits of this technology, the flood of data being produced needs to be analyzed in various ways.

This short book presents various statistical and computational methods that are being used, or will be used, towards these analyses. Covered methods include statistical hypothesis tests for differential expression analysis, principal components analysis and other methods for visualization of very high-dimensional microarray data, cluster analysis for grouping together genes or samples with similar expression patterns, and neural networks and other classifiers for predictively classifying sample expression patterns as one of several types (e.g., cancerous or not). There is also a brief chapter on the emerging area of inferring gene networks from microarray data.

Most of the covered methods are supported in some software or another, public domain or commercial, for microarray data analysis. The biologist working on or having a keen interest in microarrays will find it very important to understand these methods. She can skip some of the algorithmic details (e.g. inner working of PCA, MDS, SOMs, or neural networks) but should understand the statistical hypothesis testing sections thoroughly. (It is essential to obtain a thorough understanding of the inner workings of a statistical test to be able to use it effectively.) The mathematician or the computer scientist working on or having a keen interest in microarray data analysis will find the algorithmic descriptions useful.

This short book covers the foundations of the topic. This material has been (and is continuing to be) classroom tested in a short course "Microarray Data Analysis" by the author.

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