

Praise for the *First Edition*

"... extremely well written ... a comprehensive and up-to-date overview of this important field."

—*Journal of Environmental Quality*

Exploration and Analysis of DNA Microarray and Other High-Dimensional Data, Second Edition provides comprehensive coverage of recent advancements in microarray data analysis. A cutting-edge guide, the *Second Edition* demonstrates various methodologies for analyzing data in biomedical research and offers an overview of the modern techniques used in microarray technology to study patterns of gene activity.

The new edition answers the need for an efficient outline of all phases of this revolutionary analytical technique, from preprocessing to the analysis stage. Utilizing research and experience from highly-qualified authors in fields of data analysis, *Exploration and Analysis of DNA Microarray and Other High-Dimensional Data, Second Edition* features:

- A new chapter on the interpretation of findings that includes a discussion of signatures and material on gene set analysis, including network analysis
- New topics of coverage including ABC clustering, biclustering, partial least squares, penalized methods, ensemble methods, and enriched ensemble methods
- Updated exercises to deepen knowledge of the presented material and provide readers with resources for further study

The book is an ideal reference for scientists in biomedical and genomics research fields who analyze DNA microarrays and protein array data, as well as statisticians and bioinformatics practitioners. *Exploration and Analysis of DNA Microarray and Other High-Dimensional Data, Second Edition* is also a useful text for graduate-level courses on statistics, computational biology, and bioinformatics.

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