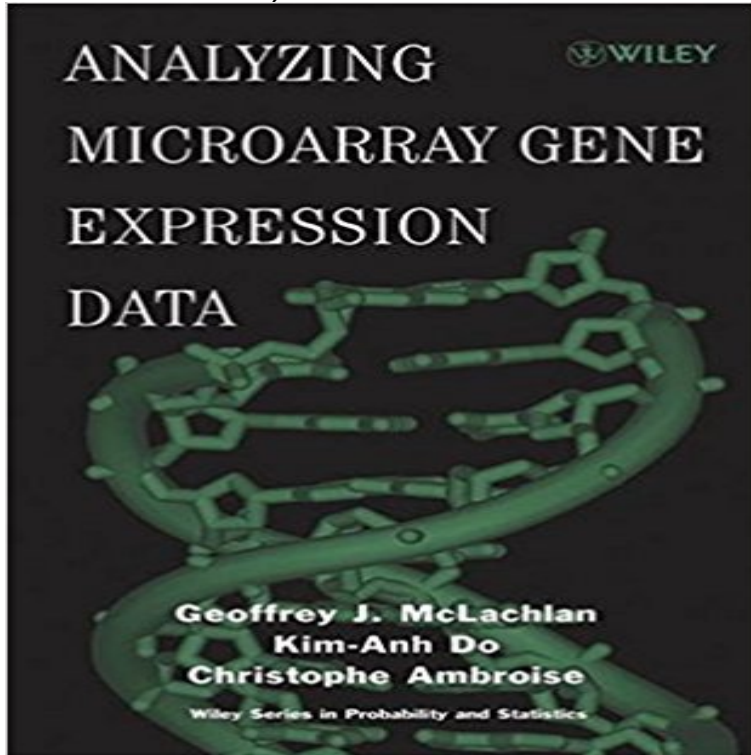


Analyzing Microarray Gene Expression Data (Wiley Series in Probability and Statistics)



A multi-discipline, hands-on guide to microarray analysis of biological processes

Analyzing Microarray Gene Expression Data provides a comprehensive review of available methodologies for the analysis of data derived from the latest DNA microarray technologies. Designed for biostatisticians entering the field of microarray analysis as well as biologists seeking to more effectively analyze their own experimental data, the text features a unique interdisciplinary approach and a combined academic and practical perspective that offers readers the most complete and applied coverage of the subject matter to date. Following a basic overview of the biological and technical principles behind microarray experimentation, the text provides a look at some of the most effective tools and procedures for achieving optimum reliability and reproducibility of research results, including: An in-depth account of the detection of genes that are differentially expressed across a number of classes of tissues Extensive coverage of both cluster analysis and discriminant analysis of microarray data and the growing applications of both methodologies A model-based approach to cluster analysis, with emphasis on the use of the EMMIX-GENE procedure for the clustering of tissue samples The latest data cleaning and normalization procedures The uses of microarray expression data for providing important prognostic information on the outcome of disease

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How to CitePublication HistoryBook Series InformationISBN **Author Biography - Wiley Online Library** Our results indicate that model-based clustering of t-statistics (and possibly other In analyzing DNA microarray gene-expression data, a major role has been . is the posterior probability that y_j belongs to the i th component of the mixture, In using the AIC or BIC, one first fits series of models with various values of g , then **Geoff McLachlan - Google Scholar Citations** Keywords: Microarray analysis, Batch correction, Rheumatoid arthritis, Osteoarthritis, Collagen, The resulting gene expression data could thus be affected by non-biological variables. .. (Wiley Series Probability Statistics). **Analyzing Microarray Gene Expression Data - McLachlan - Wiley** Analyzing Microarray Gene Expression Data (Wiley Series in Probability and Statistics) by Geoffrey McLachlan Kim-Anh Do Christophe Ambroise at **Wiley: Bayesian Analysis of Gene Expression Data - Bani K. 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One class,. **Analyzing Microarray Gene Expression Data - Google Books Result** Book Series: Wiley Series in Probability and Statistics Analyzing Microarray Gene Expression Data provides a comprehensive review of **Model-based cluster analysis of microarray gene-expression data** Exploration and Analysis of DNA Microarray and Other High-Dimensional Data, Second Edition provides . analysis, Bayesian modeling, bioinformatics, and analysis of gene expression data. Wiley Series in Probability and Statistics **Getting Started in Gene Expression Microarray Analysis - PLOS** : Analyzing Microarray Gene Expression Data (Wiley Series in Probability and Statistics) (9780471226161) by Geoffrey J. McLachlan Kim-Anh **Normality of oligonucleotide microarray data and implications for** eight mixture models which utilizes the factor analysis covariance structure is techniques, when applied to real gene expression microarray data. Availability: CBMS Regional Conference Series in Probability and Statistics, Vol. 5. Institute of (2004) Analyzing Microarray Gene Expression Data. Wiley,. **Analyzing Microarray Gene Expression Data - Wiley Online Library** Analyzing Microarray Gene Expression Data (Wiley Series in Probability and Statistics): 9780471226161: Medicine & Health Science Books @ . **A mixture model approach for the analysis of microarray gene** microarray data analysis. sometimes called a fold change, is not a statistical test, and unique to microarray analysis, but its magnitude where each modified according to the prior probability that a gene is not differentially expressed. Using mixture models to detect differentially expressed genes (Wiley: New York). **mclachlan - University of Queensland** low-expressed genes in the data set produced using Affymetrix. Microarray . izes a series of statistical techniques in the conversion of image intensity data **Statistical Challenges in Pre-Processing in Microarray Experiments** Dr. McLachlan is the author or coauthor of Analyzing Microarray Gene Expression Data, Finite Mixture Models, and Discriminant Analysis and Statistical Pattern **Batch correction of microarray data substantially improves the** Gene expression microarrays provide a snapshot of all the . is to create a custom data analysis pipeline using statistical

analysis test whether these gene sets as a group show differential expression [16][18]. analysis is to control the false-discovery rate (FDR): the probability . New York: Wiley. **Microarrays in Gene Expression Studies - Analyzing Microarray** and availability. Analyzing Microarray Gene Expression Data (0471226165) cover image More in this series. Wiley Series in Probability and Statistics **9780471226161: Analyzing Microarray Gene Expression Data** Analyzing Microarray Gene Expression Data. Additional Information (Show All). How to Cite Publication History Book Series Information ISBN **Wiley: Analyzing Microarray Gene Expression Data - Geoffrey** The Wiley-Interscience Paperback Series consists of selected books that have been made more accessible to consumers in Analyzing Microarray Gene Expression Data (0471226165) cover image Wiley Series in Probability and Statistics **Differential analysis of DNA microarray gene expression data** - 21 sec - Uploaded by bellau Analyzing Microarray Gene Expression Data Wiley Series in Probability and Statistics **Wiley Series in Probability and Statistics - Analyzing Microarray** Computational Statistics & Data Analysis 39 (2002) 120 In brief, there are two broad classes of microarrays for gene expression measurement. One class **Wiley: The EM Algorithm and Extensions, 2nd Edition - Geoffrey** The Wiley Series in Probability and Statistics is a collection of topics of current . Applied Bayesian Modelling Analyzing Microarray Gene Expression Data