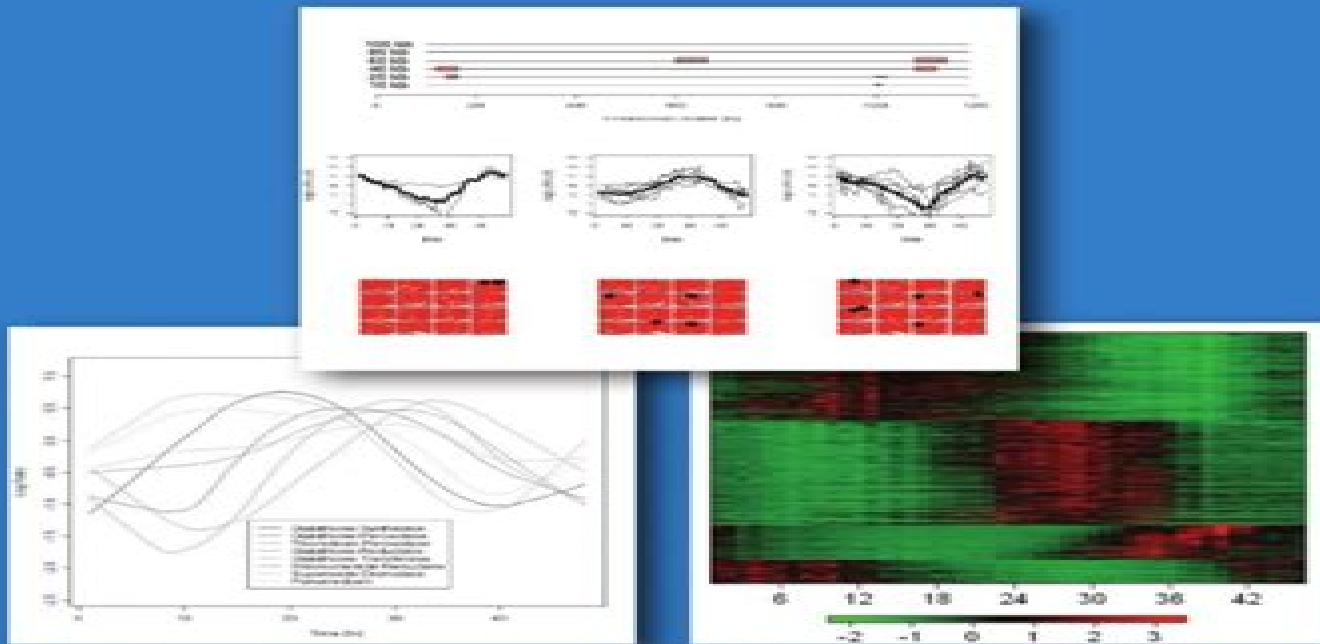


Methods of Microarray Data Analysis V

Edited by
**Patrick McConnell, Simon Lin
and Patrick Hurban**



Methods Of Microarray Data Analysis

Matthias Dehmer, Frank Emmert-Streib



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Methods of Microarray Data Analysis V Patrick McConnell, Simon Lin, Patrick Hurban, 2007-02-24 As studies using microarray technology have evolved so have the data analysis methods used to analyze these experiments The CAMDA Critical Assessment of Microarray Data Analysis conference was the first to establish a forum for a cross section of researchers to look at a common data set and apply innovative analytical techniques to microarray data Methods of Microarray Analysis V includes selected papers from CAMDA 04 and focuses on data sets relating to a significant global health issue malaria Previous books focused on classification V I pattern recognition V II quality control issues V III and associating array data with a survival endpoint lung cancer V IV The contributions come from research fields including statistics biology computer science and mathematics Part of the book is devoted to review papers which provide a more general look at various analytical approaches It also presents some background readings for the advanced topics discussed in the CAMDA papers

Methods of Microarray Data Analysis Simon M. Lin, Kimberly F. Johnson, 2002 Papers from CAMDA 2000 December 18 19 2000 Duke University Durham NC USA

Methods of Microarray Data Analysis III Kimberly F. Johnson, Simon M. Lin, 2003-09-30 As microarray technology has matured data analysis methods have advanced as well Methods Of Microarray Data Analysis III is the third book in this pioneering series dedicated to the existing new field of microarrays While initial techniques focused on classification exercises volume I of this series and later on pattern extraction volume II of this series this volume focuses on data quality issues Problems such as background noise determination analysis of variance and errors in data handling are highlighted Three tutorial papers are presented to assist with a basic understanding of underlying principles in microarray data analysis and twelve new papers are highlighted analyzing the same CAMDA 02 datasets the Project Normal data set or the Affymetrix Latin Square data set A comparative study of these analytical methodologies brings to light problems solutions and new ideas This book is an excellent reference for academic and industrial researchers who want to keep abreast of the state of art of microarray data analysis

Methods of Microarray Data Analysis II Simon M. Lin, Kimberly F. Johnson, 2002-06-30 Contains papers from the second CAMDA conference 2001

Methods of Microarray Data Analysis IV Jennifer S. Shoemaker, Simon M. Lin, 2006-01-16 As studies using microarray technology have evolved so have the data analysis methods used to analyze these experiments The CAMDA conference plays a role in this evolving field by providing a forum in which investors can analyze the same data sets using different methods 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 In this volume four lung cancer data sets are the focus of analysis We highlight three tutorial papers including one to assist with a basic understanding of lung cancer a review of survival analysis in the gene expression literature and a paper on replication In addition 14 papers presented at the conference are

included This book is an excellent reference for academic and industrial researchers who want to keep abreast of the state of the art of microarray data analysis Jennifer Shoemaker is a faculty member in the Department of Biostatistics and Bioinformatics and the Director of the Bioinformatics Unit for the Cancer and Leukemia Group B Statistical Center Duke University Medical Center Simon Lin is a faculty member in the Department of Biostatistics and Bioinformatics and the Manager of the Duke Bioinformatics Shared Resource Duke University Medical Center

Statistical Methods for Microarray Data Analysis Andrei Y. Yakovlev, Lev Klebanov, Daniel Gaile, 2013-02-06 Microarrays for simultaneous measurement of redundancy of RNA species are used in fundamental biology as well as in medical research Statistically a microarray may be considered as an observation of very high dimensionality equal to the number of expression levels measured on it In Statistical Methods for Microarray Data Analysis Methods and Protocols expert researchers in the field detail many methods and techniques used to study microarrays guiding the reader from microarray technology to statistical problems of specific multivariate data analysis Written in the highly successful Methods in Molecular Biology™ series format the chapters include the kind of detailed description and implementation advice that is crucial for getting optimal results in the laboratory Thorough and intuitive Statistical Methods for Microarray Data Analysis Methods and Protocols aids scientists in continuing to study microarrays and the most current statistical methods

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Microarray Data Analysis Michael J. Korenberg, 2008-02-03 In this new volume renowned authors contribute fascinating cutting edge insights into microarray data analysis Information on an array of topics is included in this innovative book including in depth insights into presentations of genomic signal processing Also detailed is the use of tiling arrays for large genomes analysis The protocols follow the successful Methods in Molecular Biology™ series format offering step by step instructions an introduction outlining the principles behind the technique lists of the necessary equipment and reagents and tips on troubleshooting and avoiding pitfalls

A Practical Approach to Microarray Data Analysis Daniel P. Berrar, Werner Dubitzky, Martin Granzow, 2007-05-08 In the past several years DNA microarray technology has attracted

tremendous interest in both the scientific community and in industry With its ability to simultaneously measure the activity and interactions of thousands of genes this modern technology promises unprecedented new insights into mechanisms of living systems Currently the primary applications of microarrays include gene discovery disease diagnosis and prognosis drug discovery pharmacogenomics and toxicological research toxicogenomics Typical scientific tasks addressed by microarray experiments include the identification of coexpressed genes discovery of sample or gene groups with similar expression patterns identification of genes whose expression patterns are highly differentiating with respect to a set of discerned biological entities e g tumor types and the study of gene activity patterns under various stress conditions e g chemical treatment More recently the discovery modeling and simulation of regulatory gene networks and the mapping of expression data to metabolic pathways and chromosome locations have been added to the list of scientific tasks that are being tackled by microarray technology Each scientific task corresponds to one or more so called data analysis tasks Different types of scientific questions require different sets of data analytical techniques Broadly speaking there are two classes of elementary data analysis tasks predictive modeling and pattern detection Predictive modeling tasks are concerned with learning a classification or estimation function whereas pattern detection methods screen the available data for interesting previously unknown regularities or relationships

Analysis of Microarray Gene Expression Data Mei-Ling Ting Lee, 2004-04-30 After genomic sequencing microarray technology has emerged as a widely used platform for genomic studies in the life sciences Microarray technology provides a systematic way to survey DNA and RNA variation With the abundance of data produced from microarray studies however the ultimate impact of the studies on biology will depend heavily on data mining and statistical analysis The contribution of this book is to provide readers with an integrated presentation of various topics on analyzing microarray data

The Analysis of Gene Expression Data Giovanni Parmigiani, Elizabeth S. Garrett, Rafael A. Irizarry, Scott L. Zeger, 2003-04-08 This book presents practical approaches for the analysis of data from gene expression micro arrays It describes the conceptual and methodological underpinning for a statistical tool and its implementation in software The book includes coverage of various packages that are part of the Bioconductor project and several related R tools The materials presented cover a range of software tools designed for varied audiences

Guide to Analysis of DNA Microarray Data Steen Knudsen, 2005-02-18 Written for biologists and medical researchers who don't have any special training in data analysis and statistics Guide to Analysis of DNA Microarray Data Second Edition begins where DNA array equipment leaves off the image produced by the microarray The text deals with the questions that arise starting at this point providing an introduction to microarray technology then moving on to image analysis data analysis cluster analysis and beyond With all chapters rewritten updated and expanded to include the latest generation of technology and methods Guide to Analysis of DNA Microarray Data Second Edition offers practitioners reliable information using concrete examples and a clear comprehensible style This Second Edition features entirely new chapters on Image analysis

Experiment design Automated analysis integrated analysis and systems biology Interpretation of results Intended for readers seeking practical applications this text covers a broad spectrum of proven approaches in this rapidly growing technology Additional features include further reading suggestions for each chapter as well as a thorough review of available analysis software

Analysis of Microarray Data Matthias Dehmer, Frank Emmert-Streib, 2008-09-08 This book is the first to focus on the application of mathematical networks for analyzing microarray data This method goes well beyond the standard clustering methods traditionally used From the contents Understanding and Preprocessing Microarray Data Clustering of Microarray Data Reconstruction of the Yeast Cell Cycle by Partial Correlations of Higher Order Bilayer Verification Algorithm Probabilistic Boolean Networks as Models for Gene Regulation Estimating Transcriptional Regulatory Networks by a Bayesian Network Analysis of Therapeutic Compound Effects Statistical Methods for Inference of Genetic Networks and Regulatory Modules Identification of Genetic Networks by Structural Equations Predicting Functional Modules Using Microarray and Protein Interaction Data Integrating Results from Literature Mining and Microarray Experiments to Infer Gene Networks The book is for both scientists using the technique as well as those developing new analysis techniques

Statistical Analysis of Gene Expression Microarray Data Terry Speed, 2003-03-26 Although less than a decade old the field of microarray data analysis is now thriving and growing at a remarkable pace Biologists geneticists and computer scientists as well as statisticians all need an accessible systematic treatment of the techniques used for analyzing the vast amounts of data generated by large scale gene expression studies

Microarray Gene Expression Data Analysis Helen Causton, John Quackenbush, Alvis Brazma, 2009-04-01 This guide covers aspects of designing microarray experiments and analysing the data generated including information on some of the tools that are available from non commercial sources Concepts and principles underpinning gene expression analysis are emphasised and wherever possible the mathematics has been simplified The guide is intended for use by graduates and researchers in bioinformatics and the life sciences and is also suitable for statisticians who are interested in the approaches currently used to study gene expression Microarrays are an automated way of carrying out thousands of experiments at once and allows scientists to obtain huge amounts of information very quickly Short concise text on this difficult topic area Clear illustrations throughout Written by well known teachers in the subject Provides insight into how to analyse the data produced from microarrays

Advanced Analysis of Gene Expression Microarray Data Aidong Zhang, 2006 Focuses on the development and application of the latest advanced data mining machine learning and visualization techniques for the identification of interesting significant and novel patterns in gene expression microarray data Describes cutting edge methods for analyzing gene expression microarray data Coverage includes gene based analysis sample based analysis pattern based analysis and visualization tools

Methods of Microarray Data Analysis Jennifer S. Shoemaker, 2005

Microarray Image and Data Analysis Luis Rueda, 2018-09-03 Microarray Image and Data Analysis Theory and Practice is a compilation of the latest and greatest microarray image and data analysis

methods from the multidisciplinary international research community Delivering a detailed discussion of the biological aspects and applications of microarrays the book Describes the key stages of image processing gridding segmentation compression quantification and normalization Features cutting edge approaches to clustering biclustering and the reconstruction of regulatory networks Covers different types of microarrays such as DNA protein tissue and low and high density oligonucleotide arrays Examines the current state of various microarray technologies including their availability and affordability Explains how data generated by microarray experiments are analyzed to obtain meaningful biological conclusions An essential reference for academia and industry Microarray Image and Data Analysis Theory and Practice provides readers with valuable tools and techniques that extend to a wide range of biological studies and microarray platforms

A Biologist's Guide to Analysis of DNA Microarray Data Steen Knudsen, 2011-09-23 A great introductory book that details reliable approaches to problems met in standard microarray data analyses It provides examples of established approaches such as cluster analysis function prediction and principle component analysis Discover real examples to illustrate the key concepts of data analysis Written for those without any advanced background in math statistics or computer sciences this book is essential for anyone interested in harnessing the immense potential of microarrays in biology and medicine

Design and Application of the Kentucky Microarray Analysis Suite Vijay Anand Raghavan, 2006 In recent years microarrays have become the most widely used standard in the study of gene expression The biggest problem in microarray data analysis is the dimensionality of the data compared to other more traditional biomedical research methods The inherent nature of the data and the problems associated with the microarray data analysis has led to the development of many methods for microarray data analysis Microarray data analysis methods are commonly classified into Class Discovery methods e g clustering Class Comparison methods e g predicting differentially expressed genes and Class Prediction methods e g classification In this thesis a new microarray analysis tool called Kentucky Microarray Analysis Suite that has all the three major microarray analysis methods is introduced As a proof of concept Affymetrix array data related to aging in *C. elegans* is analyzed with the Kentucky Microarray Analysis Suite and the results are presented

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