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| 1. Record Nr. | UNINA9910140591203321 |
| Titolo | Statistical bioinformatics [[electronic resource]] : a guide for life and biomedical science researchers // edited by Jae K. Lee |
| Pubbl/distr/stampa | Hoboken, NJ, : Wiley, c2010 |
| ISBN | 1-118-21152-9 1-282-69036-1 9786612690365 0-470-56764-3 0-470-56763-5 |
| Descrizione fisica | 1 online resource (386 p.) |
| Altri autori (Persone) | LeeJae K |
| Disciplina | 570.285 |
| Soggetti | Bioinformatics - Statistical methods Biology - Data processing |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | STATISTICAL BIOINFORMATICS; CONTENTS; PREFACE; CONTRIBUTORS; 1 ROAD TO STATISTICAL BIOINFORMATICS; 2 PROBABILITY CONCEPTS AND DISTRIBUTIONS FOR ANALYZING LARGE BIOLOGICAL DATA; 3 QUALITY CONTROL OF HIGH-THROUGHPUT BIOLOGICAL DATA; 4 STATISTICAL TESTING AND SIGNIFICANCE FOR LARGE BIOLOGICAL DATA ANALYSIS; 5 CLUSTERING: UNSUPERVISED LEARNING IN LARGE BIOLOGICAL DATA; 6 CLASSIFICATION: SUPERVISED LEARNING WITH HIGH-DIMENSIONAL BIOLOGICAL DATA; 7 MULTIDIMENSIONAL ANALYSIS AND VISUALIZATION ON LARGE BIOMEDICAL DATA; 8 STATISTICAL MODELS, INFERENCE, AND ALGORITHMS FOR LARGE BIOLOGICAL DATA ANALYSIS 9 EXPERIMENTAL DESIGNS ON HIGH-THROUGHPUT BIOLOGICAL EXPERIMENTS10 STATISTICAL RESAMPLING TECHNIQUES FOR LARGE BIOLOGICAL DATA ANALYSIS; 11 STATISTICAL NETWORK ANALYSIS FOR BIOLOGICAL SYSTEMS AND PATHWAYS; 12 TRENDS AND STATISTICAL CHALLENGES IN GENOMEWIDE ASSOCIATION STUDIES; 13 R AND BIOCONDUCTOR PACKAGES IN BIOINFORMATICS: TOWARDS SYSTEMS BIOLOGY; INDEX |

Sommario/riassunto

This book provides an essential understanding of statistical concepts necessary for the analysis of genomic and proteomic data using computational techniques. The author presents both basic and advanced topics, focusing on those that are relevant to the computational analysis of large data sets in biology. Chapters begin with a description of a statistical concept and a current example from biomedical research, followed by more detailed presentation, discussion of limitations, and problems. The book starts with an introduction to probability and statistics for genome-wide data, and moves into

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| 2. Record Nr. | UNINA9910854700603321 |
| Autore | Brock, Thomas D. |
| Titolo | Biology of microorganisms / Thomas D. Brock, Michael T. Madigan |
| Pubbl/distr/stampa | New Jersey, : Prentice Hall, 1970 |
| Descrizione fisica | 737 p. ; 28 cm |
| Disciplina | 579 |
| Locazione | FAGBC |
| Collocazione | A MIC 1575 |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
