



## Bioinformatics Methods in Clinical Research (Methods in Molecular Biology)

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Integrated bioinformatics solutions have become increasingly valuable in past years, as technological advances have allowed researchers to consider the potential of omics for clinical diagnosis, prognosis, and therapeutic purposes, and as the costs of such techniques have begun to lessen. In *Bioinformatics Methods in Clinical Research*, experts examine the latest developments impacting clinical omics, and describe in great detail the algorithms that are currently used in publicly available software tools. Chapters discuss statistics, algorithms, automated methods of data retrieval, and experimental consideration in genomics, transcriptomics, proteomics, and metabolomics. Composed in the highly successful *Methods in Molecular Biology*™ series format, each chapter contains a brief introduction, provides practical examples illustrating methods, results, and conclusions from data mining strategies wherever possible, and includes a Notes section which shares tips on troubleshooting and avoiding known pitfalls.

Informative and ground-breaking, *Bioinformatics Methods in Clinical Research* establishes a much-needed bridge between theory and practice, making it an indispensable resource for bioinformatics researchers.

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#### Review

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“This volume of Methods in Molecular Biology provides an overview of the recent improvements in the use of bioinformatics in clinical research. ... All chapters provide pertinent examples. ... The book is intended primarily for scientists involved in biomedical informatics (computational biologists, biostatisticians, computer scientists) who are active in the field of clinical research. This includes both first-time and seasoned students and biomedical researchers who are interested in using bioinformatics. ... It also presents a number of valuable approaches currently in use.” (Ruben Mestril, Doody’s Review Service, April, 2010)

“This book ‘Bioinformatics Methods in Clinical Research edited by Rune Matthiesen’ contains sixteen chapters, and results from scientific cooperation of academics, specialists in the main areas of investigation on bioinformatics methods, and applications in clinical research from centers and universities of Europe such as Denmark, Spain, Portugal as well as Canada and the United States of North America. ... several specific fields are discussed including biomarkers in breast cancer and computational methods for two-dimensional analyses in gels.” (Sílvia Regina Cavani Jorge Santos, Brazilian Journal of Pharmaceutical Sciences, Spring, 2011)

#### From the Back Cover

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