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Big Data Analysis for Bioinformatics and Biomedical Discoveries



Edited by
Shui Qing Ye



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Bioinformatics Biomedical Discoveries Mathematical Computational

**Chukwuebuka Egbuna, Shashank
Kumar, Jonathan C. Ifemeje, Shahira M.
Ezzat, Saravanan Kaliyaperumal**

Bioinformatics Biomedical Discoveries Mathematical Computational:

Big Data Analysis for Bioinformatics and Biomedical Discoveries Shui Qing Ye, 2016-01-13 Demystifies Biomedical and Biological Big Data Analyses Big Data Analysis for Bioinformatics and Biomedical Discoveries provides a practical guide to the nuts and bolts of Big Data enabling you to quickly and effectively harness the power of Big Data to make groundbreaking biological discoveries carry out translational medical research and implement **Computational Immunology** Shyamasree Ghosh, 2020-01-31 Computational Immunology Applications focuses on different mathematical models statistical tools techniques and computational modelling that helps in understanding complex phenomena of the immune system and its biological functions The book also focuses on the latest developments in computational biology in designing of drugs targets biomarkers for early detection and prognosis of a disease It highlights the applications of computational methods in deciphering the complex processes of the immune system and its role in health and disease This book discusses the most essential topics including Next generation sequencing NGS and computational immunology Computational modelling and biology of diseases Drug designing Computation and identification of biomarkers Application in organ transplantation Application in disease detection and therapy Computational methods and applications in understanding of the invertebrate immune system S Ghosh is MSc PhD PGDHE PGDBI is PhD from IICB CSIR Kolkata awarded the prestigious National Scholarship from the Government of India She has worked and published extensively in glycobiology sialic acids immunology stem cells and nanotechnology She has authored several publications that include books and encyclopedia chapters in reputed journals and books **Molecular Analysis and Genome Discovery** Ralph Rapley, Stuart Harbron, 2005-09-01 This advanced level textbook provides a comprehensive overview of recent developments in the area of molecular based diagnostics including nucleic acids biosensors and immunoassays of disease markers It also covers the impact of techniques such as in vitro nucleic acid amplifications e.g. PCR and other amplification methods as well as gene and biochip production and automated techniques such as fluorescent sequencing The book discusses key concepts where new and merging areas including pharmacogenomics proteomics and functional genomics are being researched and developed In addition examples are given where this new area of bioscience has or may be successfully applied **Phytochemicals as Lead Compounds for New Drug Discovery** Chukwuebuka Egbuna, Shashank Kumar, Jonathan C. Ifemeje, Shahira M. Ezzat, Saravanan Kaliyaperumal, 2019-09-07 *Phytochemicals as Lead Compounds for New Drug Discovery* presents complete coverage of the recent advances in the discovery of phytochemicals from medicinal plants as models to the development of new drugs and chemical entities Functional bioactive compounds of plant origin have been an invaluable source for many human therapeutic drugs and have played a major role in the treatment of diseases around the world These compounds possess enormous structural and chemical diversity and have led to many important discoveries This book presents fundamental concepts and factors affecting the choice for plant based products as well as recent advances in computer aided drug discovery and FDA

drug candidacy acceptance criteria It also details the various bioactive lead compounds and molecular targets for a range of life threatening diseases including cancer diabetes and neurodegenerative diseases Written by a global team of experts Phytochemicals as Lead Compounds for New Drug Discovery is an ideal resource for drug developers phytochemists plant biochemists food and medicinal chemists nutritionists and toxicologists chemical ecologists taxonomists analytical chemists and other researchers in those fields It will also be very valuable to professors students and researchers in this domain

Presents fundamental concepts and factors affecting choice for plant based products Details the FDA drug candidacy acceptance criteria including bottlenecks and way forward Highlights recent advances in computational based drug discovery Focuses on the discovery of new drugs and potential druggable targets for the treatment of chronic diseases of world importance **Bioinformatics and Biomarker Discovery** Francisco Azuaje, 2011-08-24 This book is designed to introduce biologists clinicians and computational researchers to fundamental data analysis principles techniques and tools for supporting the discovery of biomarkers and the implementation of diagnostic prognostic systems The focus of the book is on how fundamental statistical and data mining approaches can support biomarker discovery and evaluation emphasising applications based on different types of omic data The book also discusses design factors requirements and techniques for disease screening diagnostic and prognostic applications Readers are provided with the knowledge needed to assess the requirements computational approaches and outputs in disease biomarker research Commentaries from guest experts are also included containing detailed discussions of methodologies and applications based on specific types of omic data as well as their integration Covers the main range of data sources currently used for biomarker discovery Covers the main range of data sources currently used for biomarker discovery Puts emphasis on concepts design principles and methodologies that can be extended or tailored to more specific applications Offers principles and methods for assessing the bioinformatic biostatistic limitations strengths and challenges in biomarker discovery studies Discusses systems biology approaches and applications Includes expert chapter commentaries to further discuss relevance of techniques summarize biological clinical implications and provide alternative interpretations Reproducibility in Biomedical Research Erwin B. Montgomery Jr., 2024-04-29

Reproducibility in Biomedical Research Epistemological and Statistical Problems 2nd Ed explores the ideas and conundrums inherent in scientific research Reproducibility is one of the biggest challenges in biomedical research It affects not only the ability to replicate results but the very trust in the findings Since published in 2019 Reproducibility of Biomedical Research Epistemological and Statistical Problems established itself as a solid ethical reference in the area leading to significant reflection on biomedical research The second edition addresses new challenges to reproducibility in biosciences namely reproducibility of machine learning Artificial Intelligence AI reproducibility of translation from research to medical care and the fundamental challenges to reproducibility All current chapters will be expanded to cover advances in the topics previously addressed Reproducibility in Biomedical Research Epistemological and Statistical Problems 2nd Ed

provides biomedical researchers with a framework to better understand the reproducibility challenges in the area Newly introduced interactive exercises and updated case studies help students understand the fundamental concepts involved in the area Includes four new chapters and updates across the book covering recent developments of issues affecting reproducibility in biomedical research Covers reproducibility of results from machine learning AI algorithms Presents new case studies to illustrate challenges in related fields Includes a companion website with interactive exercises and summary tables

An Introduction to Physical Oncology Vittorio Cristini,Eugene Koay,Zhihui Wang,2017-06-26 Physical oncology has the potential to revolutionize cancer research and treatment The fundamental rationale behind this approach is that physical processes such as transport mechanisms for drug molecules within tissue and forces exchanged by cancer cells with tissue may play an equally important role as biological processes in influencing progression and treatment outcome This book introduces the emerging field of physical oncology to a general audience with a focus on recent breakthroughs that help in the design and discovery of more effective cancer treatments It describes how novel mathematical models of physical transport processes incorporate patient tissue and imaging data routinely produced in the clinic to predict the efficacy of many cancer treatment approaches including chemotherapy and radiation therapy By helping to identify which therapies would be most beneficial for an individual patient and quantifying their effects prior to actual implementation in the clinic physical oncology allows doctors to design treatment regimens customized to each patient s clinical needs significantly altering the current clinical approach to cancer treatment and improving the outcomes for patients

Computational Exome and Genome Analysis Peter N. Robinson,Rosario Michael Piro,Marten Jager,2017-09-13 Exome and genome sequencing are revolutionizing medical research and diagnostics but the computational analysis of the data has become an extremely heterogeneous and often challenging area of bioinformatics Computational Exome and Genome Analysis provides a practical introduction to all of the major areas in the field enabling readers to develop a comprehensive understanding of the sequencing process and the entire computational analysis pipeline

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