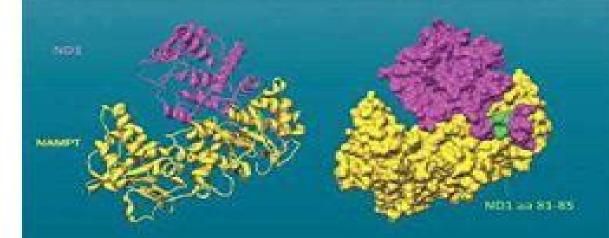
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Big Data Analysis for Bioinformatics and Biomedical Discoveries Shui Qing Ye,2016-01-13 Demystifies Biomedical and Biological Big Data AnalysesBig Data Analysis for Bioinformatics and Biomedical Discoveries provides a practical guide to the nuts and 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 implem **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 Molecular Analysis and Genome Discovery Ralph Rapley, Stuart Harbron, 2005-09-01 This reputed journals and books advanced level textbook provides a comprehensive overview of recent developments in the area of molecular based diagnostics including nucleic acids biosensors and immunoessays of diseasemarkers It also covers the impact of techniques such as in vitronucleic acid amplifications e g PCR and other amplificationmethods 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 givenwhere 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 fundament 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 quest 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

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