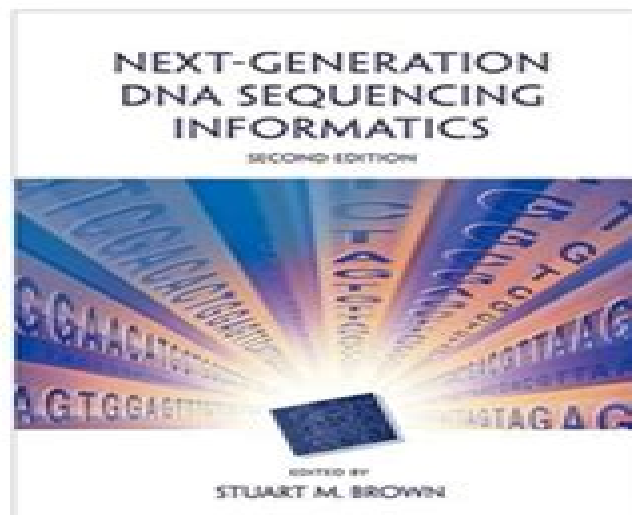


Next-Generation DNA Sequencing Informatics, Second Edition



BOOK DETAIL

Hardcover: 402 pages Publisher: Cold Spring Harbor Laboratory Press; 2 edition (June 30, 2015) Language: English ISBN-10: 1621821234 ISBN-13: 978-1621821236 Product Dimensions: 10.3 x 1.2 x 7.2 inches Shipping Weight: 1.6 pounds (View shipping rates and policies) Customer Reviews:

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Next-generation DNA sequencing (NGS) technology has revolutionized biomedical research, making genome and RNA sequencing an affordable and frequently used tool for a wide variety of research applications including variant (mutation) discovery, gene expression, transcription factor analysis, metagenomics, and epigenetics. Bioinformatics methods to support DNA sequencing have become and remain a critical bottleneck for many researchers and organizations wishing to make use of NGS technology. This new edition provides a thorough, plain-language introduction to the necessary informatics methods and tools for analyzing NGS data and provides detailed descriptions of algorithms, strengths and weaknesses of specific tools, pitfalls, and alternative methods. Four new chapters cover experimental design, sample preparation, and quality assessment of NGS data; public databases for DNA sequencing data; de novo transcript assembly; proteogenomics; and emerging sequencing technologies. The remaining chapters from the first edition have been updated with the latest information. This book also provides extensive reference to best-practice bioinformatics methods for NGS applications and tutorials for common workflows. This edition addresses the informatics needs of students, laboratory scientists, and computing specialists who wish to take advantage of the explosion of research opportunities offered by new DNA sequencing technologies. Authors Alexander Alekseyenko Silvia Angimón Brian D. Athey Miroslav Blumenberg Stuart M. Brown Lisa Cohen Efstratios Efsthathiadis David Fenyő Jeremy Goecks Gerald A. Higgins D. Frank Hsu Kranti Konganti Konstantinos Krampis Guillermo I. Perez-Perez Kelly V. Ruggles Christina Schweikert Steven Shen Phillip Ross Smith Zuoqian Tang Jinhua Wang

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a broad cross section of biologists and anyone else interested in learning how to obtain phylogenomic data using the latest methods

Biotechnology to Combat COVID-19 Megha Agrawal, Shyamasri Biswas, 2022-02-23 This book provides an inclusive and comprehensive discussion of the transmission science biology genome sequencing diagnostics and therapeutics of COVID 19 It also discusses public and government health measures and the roles of media as well as the impact of society on the ongoing efforts to combat the global pandemic It addresses almost every topic that has been studied so far in the research on SARS CoV 2 to gain insights into the fundamentals of the disease and mitigation strategies This volume is a useful resource for virologists epidemiologists biologists medical professionals public health and government professionals and all global citizens who have endured and battled against the pandemic

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Genetics of Behavioral Traits **Insect Molecular Genetics** Marjorie A. Hoy, 2018-09-12 Insect Molecular Genetics

Ethical Issues in AI for Bioinformatics and Chemoinformatics Yashwant V. Pathak, Surovi Saikia, Sarvadaman Pathak, Jayvadan K. Patel, Jigna Bhupendra Prajapati, 2023-11-14 This unique volume presents AI in relation to ethical points of view in handling big data sets. Issues such as algorithmic biases, discrimination for specific patterns and privacy breaches may sometimes be skewed to affect research results so that certain fields appear more appealing to funding agencies. The discussion on the ethics of AI is highly complex due to the involvement of many international stakeholders such as the UN, OECD, parliaments, industry groups, professional bodies and individual companies. The issue of reliability is addressed including the emergence of synthetic life, 5G networks, intermingling of human artificial intelligence, nano robots and cyber security tools. Features: Discusses artificial intelligence and ethics, the challenges and opportunities. Presents the issue of reliability in the emergence of synthetic life, 5G networks, intermingling of human artificial intelligence, nano robots and cyber security tools. Ethical responsibility and reasoning for using AI in Big Data. Addresses practicing medicine and ethical issues when applying artificial intelligence. Human Genome, 1997 *The Human Genome Project* United States. Congress. House. Committee on Science. Subcommittee on Energy and Environment, 1998 *Data Processing Handbook for Complex Biological Data Sources* Gauri Misra, 2019-03-23 Data Processing Handbook for Complex Biological Data provides relevant and to the point content for those who need to understand the different types of biological data and the techniques to process and interpret them. The book includes feedback the editor received from students studying at both undergraduate and graduate levels and from her peers. In order to succeed in data processing for biological data sources it is necessary to master the type of data and general methods and tools for modern data processing. For instance many labs follow the path of interdisciplinary studies and get their data validated by several methods. Researchers at those labs may not perform all the techniques themselves but either in collaboration or through outsourcing they make use of a range of them because in the absence of cross validation using different techniques the chances for acceptance of an article for publication in high profile journals is weakened. Explains how to interpret enormous amounts of data generated using several experimental approaches in simple terms thus relating biology and physics at the atomic level. Presents sample data files and explains the usage of equations and web servers cited in research articles to extract useful information from their own biological data. Discusses in detail raw data files, data processing strategies and the web based sources relevant for data processing. **Biosafety and Biosecurity Approaches to Counter SARS-CoV-2: From Detection to Best Practices and Risk Assessments** Stephen Allen Morse, Segaran P. Pillai, Jianming Qiu, Yao-Wei Huang, 2021-10-14 **Genomic Approach to Asthma** Xiangdong Wang, Zhihong Chen, 2018-06-12 This volume in the series Translational Bioinformatics provides an up to date overview of genomic approaches to asthma. By applying unbiased omics combined with disease focused and hypothesis driven approaches it enhances readers understanding of the asthma endotype. Furthermore it elucidates how progress in omics research such as

genomic transcriptomic proteomic and metabolomic is applied in asthma and reports on the related series of important breakthroughs in asthma development classification prevention and drug sensitivity Also covering systems biology knowledge and methodologies computational models and biostatistical methods to analyze big data this book provides a valuable resource for scientists and researchers in the field of asthma and respiratory diseases **Precision Medicine in Practice:**

Molecular Diagnosis Enabling Precision Therapies, An Issue of the Clinics in Laboratory Medicine Ryan J. Schmidt, 2020-06-21 This issue of Clinics in Laboratory Medicine will cover Precision Medicine in Practice Molecular Diagnosis Enabling Precision Therapies Curated by Dr Ryan J Schmidt this issue is one of four selected each year by the series Consulting Editor Milenko Tanasijevic The volume will include articles on Features of a Comprehensive Precision Medicine Program for Constitutional Genetic Disorders Establishing a Precision Medicine Center of Excellence for Rare Disease High throughput DNA Sequencing for Rare Disease Diagnosis Enhancing Diagnosis through RNA Sequencing Interpretation of Rare Genetic Variants Clinical Bioinformatics Precision Therapies for Retinal Dystrophy Precision Therapies for Muscular Dystrophy Therapeutic Gene Editing High Throughput Functional Studies of Genetic Variants and Patient specific Disease Models Advances in Animal Experimentation and Modeling Ranbir Chander Sobti, 2021-12-08

Exploration in Laboratory Animal Sciences Understanding Life Phenomena updates our knowledge about the newer technologies such as molecular biology genomics including sequencing proteomics transcriptomics cell culture stem cell culture transgenesis and their translation to understand systematics and phylogeny of laboratory animals at molecular level In seven sections Exploration in Laboratory Animal Sciences Understanding Life Phenomena resolves issues of conservation applications in environment monitoring production of drugs and others Comparative research has enabled use of domestic animal models that translate the advances in basic biosciences to the schemes for human welfare including medicine Molecular geneticists are unravelling the complexities of mammalian genes and the field of biotechnology is maturing at a fast pace Additionally research focused on immunology and animal behavior offer new insight into ways of enhancing animal welfare The rise in consumption of animal proteins in addition to the challenges of sustaining our natural resources has given animal scientists a vast array of opportunities to engage in integrative systems based research for meeting the challenges that behold us Exploration in Laboratory Animal Sciences Understanding Life Phenomena also discusses the manipulation of animals as factories for the production of safe foods drugs and sensors and others to meet the contemporary challenges faced by mankind in the new world order created by pandemic of Covid 19 It also includes several chapters on the causation and management of certain diseases and impact of microbes on life Provides insight to newer and futuristic technologies to understand disease process and drug design by animal models Addresses a wide variety of species and covers a wide variety of topics such as animal species the laboratory setting regulatory guidelines and ethical considerations to fully prepare for work with all types of animals Gives a perspective on laboratory animal use that allows to explain the benefits of animal use

as required by veterinary technology program accreditation procedure Includes examples of animal bio technological techniques including stem cell and tissue engineering for their applications to humanity Offers new insight into ways of enhancing animal welfare by the inclusion of research results focused on immunology and laboratory animal behavior

Genomic Medicine Laura J. Tafe, Maria E. Arcila, 2019-09-26 The field of Molecular Diagnostics is rapidly evolving and molecular characterization of neoplasms is becoming an increasingly important part of the pathologic work up and diagnosis of many tumor types This work provides a high yield reference book that compiles critical information related to molecular biomarkers for various solid tumor and hematologic malignancy subtypes It is succinct yet comprehensive enough to be suitable for fellows in training and medical professionals with an interest in molecular pathology and biomarkers The book covers many aspects of molecular diagnostics from techniques to applications and comprehensive summaries of the current molecular biomarkers of critical importance in solid and liquid tumors Attention is also specifically devoted to bioinformatics and next generation sequencing as well as pre analytical issues that must be considered for accurate interpretation of molecular results in the context of overall patient care This text focuses on clinical utility and validity and serves as an owner's manual in Genomic Diagnostics for the practicing pathologist pathology fellows and residents and other health care providers Physicians will find this book invaluable as a quick reference for current molecular testing modalities and guidelines tumor board preparation deciding which test to order and interpreting genomic laboratory results In addition it is an accessible for trainees as a board review preparation reference

Recent Advances in Molecular and Translational Medicine: Updates in Precision Medicine Somchai Chutipongtanate, 2021-12-13 Precision medicine is a disruptive innovation with a fast evolving pace in the healthcare ecosystem Precision medicine enables precise diagnosis and targeted treatment by considering individual variability in the abnormalities of causative genes and molecular drivers behind biochemical mechanisms A vast amount of data created by advanced omics technologies is a foundation of precision medicine's success and the implications of the findings from these technologies can potentially improve clinical outcomes Recent Advances in Molecular and Translational Medicine Updates in Precision Medicine presents essential information of molecular and translational research in precision medicine with a specific focus on pediatrics This book provides an accessible introduction to omics technologies gives a detailed explanation of bioinformatics workflows to interpret high throughput omics profiles for molecular diagnosis and collects some of the cutting edge research for precise therapeutics Contributions to the book have been provided by experts in biomedical engineering and clinical practice thus bringing an informed perspective to the reader on each topic The book is a valuable resource for postgraduate students researchers data scientists and clinicians interested in precision medicine as well as researchers in the field of genetics and pediatrics who are interested in understanding the role of precision medicine in clinical practice

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