

Single Nucleotide Polymorphisms

Methods and Protocols

Edited by

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Editor



Single Nucleotide Polymorphisms Methods And Protocols Methods In Molecular Biology Vol 21

Jen-Tsung Chen

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Essentials of Bioinformatics, Volume I Noor Ahmad Shaik, Khalid Rehman Hakeem, Babajan Banaganapalli, Ramu Elango, 2019-03-27 Bioinformatics is an integrative field of computer science genetics genomics proteomics and statistics which has undoubtedly revolutionized the study of biology and medicine in past decades It mainly assists in modeling predicting and interpreting large multidimensional biological data by utilizing advanced computational methods Despite its enormous potential bioinformatics is not widely integrated into the academic curriculum as most life science students and researchers are still not equipped with the necessary knowledge to take advantage of this powerful tool Hence the primary purpose of our book is to supplement this unmet need by providing an easily accessible platform for students and researchers starting their career in life sciences This book aims to avoid sophisticated computational algorithms and programming Instead it mostly focuses on simple DIY analysis and interpretation of biological data with personal computers Our belief is that once the beginners acquire these basic skillsets they will be able to handle most of the bioinformatics tools for their research work and to better understand their experimental outcomes Unlike other bioinformatics books which are mostly theoretical this book provides practical examples for the readers on state of the art open source tools to solve biological problems Flow charts of experiments graphical illustrations and mock data are included for quick reference Volume I is therefore an ideal companion for students and early stage professionals wishing to master this blooming field

Scanning Probe Microscopy in Nanoscience and Nanotechnology 3

Bharat Bhushan, 2012-10-16 This book presents the physical and technical foundation of the state of the art in applied scanning probe techniques It constitutes a timely and comprehensive overview of SPM applications The chapters in this volume relate to scanning probe microscopy techniques characterization of various materials and structures and typical industrial applications including topographic and dynamical surface studies of thin film semiconductors polymers paper ceramics and magnetic and biological materials The chapters are written by leading researchers and application scientists from all over the world and from various industries to provide a broader perspective

Food Safety Steven Ricke, Janet R Donaldson, Carol A Phillips, 2015-07-08 Food Safety Emerging Issues Technologies and Systems offers a systems approach to learning how to understand and address some of the major complex issues that have emerged in the food industry The book is broad in coverage and provides a foundation for a practical understanding in food safety initiatives and safety rules how to deal with whole chain traceability issues handling complex computer systems and data foodborne pathogen detection production and processing compliance issues safety education and more Recent scientific industry developments are written by experts in the field and explained in a manner to improve awareness education and communication of these issues Examines effective control measures and molecular techniques for understanding specific pathogens Presents GFSI implementation concepts and issues to aid in implementation Demonstrates how operation processes can achieve a specific level of microbial reduction in food Offers tools for validating

microbial data collected during processing to reduce or eliminate microorganisms in foods

Diagnostic Molecular Biology Chang-Hui Shen, 2019-04-02 Diagnostic Molecular Biology describes the fundamentals of molecular biology in a clear concise manner to aid in the comprehension of this complex subject. Each technique described in this book is explained within its conceptual framework to enhance understanding. The targeted approach covers the principles of molecular biology including the basic knowledge of nucleic acids, proteins, and genomes as well as the basic techniques and instrumentations that are often used in the field of molecular biology with detailed procedures and explanations. This book also covers the applications of the principles and techniques currently employed in the clinical laboratory. Provides an understanding of which techniques are used in diagnosis at the molecular level. Explains the basic principles of molecular biology and their application in the clinical diagnosis of diseases. Places protocols in context with practical applications

Diagnostic Molecular Biology

Max M. Houck, 2015-01-08 Forensic Biology provides coordinated expert content from world renowned leading authorities in forensic biology. Covering the range of forensic biology this volume in the Advanced Forensic Science Series provides up to date scientific learning on DNA analysis. Technical information written with the degreeed professional in mind brings established methods together with newer approaches to build a comprehensive knowledge base for the student and practitioner alike. Like each volume in the Advanced Forensic Science Series review and discussion questions allow the text to be used in classrooms training programs and numerous other applications. Sections on fundamentals of forensic science history, safety and professional issues provide context and consistency in support of the forensic enterprise. Forensic Biology sets a new standard for reference and learning texts in mondern forensic science. Advanced articles written by international forensic biology experts. Covers the range of forensic biology including methods and interpretation. Includes entries on history, safety and professional issues. Useful as a professional reference advanced textbook or training review

Forensic Biology

Advances in breeding techniques for cereal crops Prof Frank Ordon, Prof. Wolfgang Friedt, 2019-06-28 Assesses performance of conventional techniques such as backcross and hybrid breeding in introducing new traits. Maps current progress in methods to identify quantitative trait loci (QTL) linking phenotypic traits with genetic information for selection. Shows comparative strengths and weaknesses of marker assisted selection (MAS) techniques such as genome wide association studies (GWAS) and nested association mapping (NAM)

Methods in Molecular Biology: Single nucleotide polymorphisms: methods and protocols John M. Walker, 1984

Genome, 2006

Crop Breeding

Santosh Kumar, 2016-11-25 This title includes a number of Open Access chapters. Climate change will severely impact the world's food supply unless steps are taken to increase crop resilience. Otherwise the negative effects on both the yield and the quality of crop plants are predicted to be immense. Plant genomics is a potentially powerful defense against this looming threat. This compendium volume offers a global perspective on the topic with contributions from 42 eminent researchers from 12 nations around the world. The editor is a respected and published scientist in the bioinformatics field who has chosen articles in the following topics. An overview

of the genetic challenges presented by climate change A genomic toolkit for crop related research Specific methods of improvement for specific crop by means of genomic applications The hand picked up to date research makes this volume an excellent reference not only for university level academics but also for policymakers and stakeholders who must tackle the challenge of the world's food security *African Zoology*, 2005

CRISPR and Plant Functional Genomics Jen-Tsung Chen, 2024-05-08 CRISPR is a crucial technology in plant physiology and molecular biology resulting in more sustainable agricultural practices including outcomes of better plant stress tolerance and crop improvement CRISPR and Plant Functional Genomics explores ways to release the potential of plant functional genomics one of the prevailing topics in plant biology and a critical technology for speed and precision crop breeding This book presents achievements in plant functional genomics and features information on diverse applications using the emerging CRISPR based genome editing technologies producing high yield disease resistant and climate smart crops It also includes theories on organizing strategies for upgrading the CRISPR system to increase efficiency avoid off target effects and produce transgene free edited crops Features Presents CRISPR based technologies releasing the potential of plant functional genomics Provides methods and applications of CRISPR Cas based plant genome editing technologies Summarizes achievements of speed and precision crop breeding using CRISPR based technologies Illustrates strategies to upgrade the CRISPR system Supports the UN's sustainable development goals to develop future climate resilient crops CRISPR and Plant Functional Genomics provides extensive knowledge of CRISPR based technologies and plant functional genomics and is an ideal reference for researchers graduate students and practitioners in the field of plant sciences as well as agronomy and agriculture *Genetic Analysis, Biomolecular Engineering*, 1997

Chemical Abstracts, 1995-09-11 *Human Blood Analysis* M. K. Bhasin, Surinder Nath, V. N. Sehgal, 2007 Blood a biological material is the most common evidence found in all types of forensic investigations There are two major areas of investigation Testing for biological evidence of kinship in civil cases and characterization of blood stains in criminal cases Blood groups typing is still the most commonly used immunological method employed by forensic serologists for the individualization of blood Certain enzymes and blood proteins exist in multiple genetically different forms In case of enzymes these forms are known as Isoenzymes The discovery of HLA polymorphism not only involves the variable alleles in individual loci but also the haplotypes of neighboring linked loci which increases the discrimination potential for individualization and association of some HLA antigens with particular ethnic groups thereby making them important from the forensic point of view The molecular biology has provided a more reliable techniques of DNA fingerprinting which has revolutionized the forensic analysis of blood evidence in crime investigation and today it is possible to provide valuable information in cases where scarce or degraded amount of crime scene material could have been a limiting factor Population studies and generation of DNA databases and quality systems are further advancements in the forensic investigation of blood evidence The blood analysis proves useful for the forensic serologist in establishing the

reliability of the results in any court of law **Proceedings of the National Academy of Sciences of the United States of America** National Academy of Sciences (U.S.),2004 Nature Sir Norman Lockyer,2004 **Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards** ,2008 *Molecular Biology of the Cell* ,1992 MBC online publishes papers that describe and interpret results of original research concerning the molecular aspects of cell structure and function *Genotyping* Anthony Torres,2025-06-28 This volume covers the latest techniques used to study single nucleotide polymorphisms SNP genotyping such as Sanger sequencing qPCR Nanopore sequencing and PACE The chapters in this book cover topics such as SNP nomenclature databases and significance of SNPs in various fields PCR based techniques like HRM and CD PCR isothermal amplification methodologies high throughput methods like FCS based SNP genotyping and guidance of data analysis emphasizing the importance of quality control statistical analysis and visualization Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Cutting edge and thorough Genotyping Methods and Protocols is a valuable resource for both new and experienced researchers who want to gain a deeper understanding of genotyping and its myriad of applications **International Journal of Oncology** ,1997-04

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