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Next Generation Sequencing in Forensic ScienceNext Generation Sequencing (NGS) Technology in DNA AnalysisModern Taxonomy of Bacteria and ArchaeaDefense Against Biological AttacksMolecular Genetics and Genomics Tools in Biodiversity ConservationThe Climate Change-Agricultural-Environmental NexusNext Generation Sequencing in Cancer ResearchCompanion and Complementary DiagnosticsSolutions of ElectrolytesChemistry, a Contemporary ApproachThe Annual American Catalogue 1886-1900Electronic and Atomic CollisionsPalmer's Index to the Times NewspaperElectronic and Atomic CollisionsMolecular NeuropharmacologyInorganic Chemistry of the Main-group ElementsGeology, Streamflow and Water Chemistry of the Talufofo Stream BasinRelativistic Quantum Mechanics of ElectronsPolyhedronThermodynamic Properties of Individual Substances Kelly M. Elkins Hirak Ranjan Dash Wen-Jun Li Sunit K. Singh Ashwani Kumar Sandeep Kumar Malyan Wei Wu Jan Tr[?] st J[?] rgensen Louis Plack Hammett George Tyler Miller M. J. Coggiola Eric J. Nestler Scot K. Izuka, Charles J. Ewart Tara P. Das Lev Veniaminovich Gurvich

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next generation sequencing in forensic science a primer addresses next generation sequencing ngs specific to its application to forensic science the first part of the book offers a history of human identity approaches including vntr rflp str and snp dna typing it discusses the history of sequencing for human dna typing including sanger sequencing snapshot pyrosequencing and principles of next generation sequencing the chapters present an overview of the forensically focused ampliseq forenseq precision id powerseq and qiaseq panels for human dna typing using autosomal y and x chromosome strs and snps using the miseq fgx and ion torrent system the authors outline the steps included in dna extraction and dna quantitation that are performed prior to preparing libraries with the ngs kits the second half of the book details the implementation of forenseq and precision id to amplify and tag targets to create the library enrich targets to attach indexes and adaptors perform library purification and normalization pool the libraries and load samples to the cartridge to perform the sequencing on the instrument coverage addresses the operation of the miseq fgx and ion chef including creating a sample list executing wash steps performing ngs understanding the run feedback files from the instrument and troubleshooting forenseq and precision id panel data analysis are explained including how to analyze and interpret ngs data and output graphs and charts the book concludes with mitochondrial dna mtdna sequencing and snps analysis including the issue of heteroplasmy the final chapters review forensic applications of microbial dna ngs in body fluid analysis and challenges and considerations for future applications features focuses on human identification using traditional and ngs dna typing methods targeting short tandem repeats strs applies the technology and its application to law enforcement investigations and identity and ancestry single nucleotide polymorphisms snps for investigational leads mass disaster and ancestry cases presents the underlying principles of ngs in a clear easy to understand format for practitioners and students studying dna in forensic programs this is the first book to prepare practitioners to utilize and implement this new technology in their lab for casework highlighting early applications of how ngs results have been used in court the book can be utilized for upper level undergraduate and graduate students taking courses focused on ngs concepts readers are expected to have a basic understanding of molecular and cellular biology and dna typing

next generation sequencing ngs technology in dna analysis explains and summarizes next generation sequencing ngs technological applications in the field of forensic dna analysis the book covers the transition from capillary electrophoresis ce based technique to ngs platforms and the fundamentals of ngs technologies applications and advances sections provide an overview of ngs technology and forensic science including information on processing biological samples for forensic analysis sequence analysis and data analysis software as well as the analysis of ngs data the book explores the valuable applications of ngs based forensic dna analysis and covers the validations and interpretation guidelines of ngs workflows with chapter contributions from an international

array of experts and the inclusion of practical case studies this book is a useful reference for academicians and researchers in genetics biotechnology bioinformatics biology and medicine as well as forensic dna scientists and practitioners who aim to learn use apply and validate ngs based technologies describes the fundamentals of ngs and its advances for forensic applications explains the transition from ce based technique to ngs technology includes case studies related to ngs and dna fingerprinting explores the future use and applications of ngs technologies

this book introduces the current approaches in prokaryotic taxonomy and streamlines the advanced techniques for use in prokaryotic systematics while highlighting the key differences in the taxonomy of cultured and not yet cultured bacteria and archaea it presents the genomic technology involved in microbial systematics that serves as comprehensive guidelines for isolating and identifying bacteria microbial systematics is a fundamentally important discipline area for microbiologists and those seeking to understand earth s biodiversity as bacterial taxonomy is critical in microbial ecology and clinical microbiology works the correct identification of microbes is crucial however the microbial collection existing and described as cultured species so far are either based on the taxonomic pattern that existed during its time of first cultivation with evolving technology many microbes were found to be wrongly classified therefore it is essential to keep in contact withthe developing technology and methods for the correct placement of cultured bacteria and their identification this book is an excellent guideline for adequately identifying classifying and describing novel taxa of bacteria and archaea

this second volume of a two volume set focuses on specific pathogens and their mechanisms of pathogenesis as well as diagnostics therapeutics and various strategies in the event of biological attacks this multidisciplinary book appeals to readers from various fields including biodefense biosafety biosecurity virology neurology molecular biology and genetic engineering as well as infectious disease specialists further the work is of interest to basic science and applied science research scholars and experts working in the area of high consequence or select agent virology

this book provides insight into the use of molecular and genomic techniques to the study of populations of critically important species at various geographical scales it delves into a wide range of issues relevant to biodiversity conservation such as population differentiation landscape genomics ecological interactions phylogenetics phylogeography metagenomics molecular methods and data processing the current rate of biodiversity loss is unprecedented and valuable genetic resources are being lost at an alarmingly rate effective strategies to conserve these genetic resources are essential to maintain healthy ecosystems with inter dependent species the book is an invaluable resource for training undergraduate and graduate students postdoctoral fellows and for young researchers this book is particularly useful for the policy makers and academics who want to learn about important concepts in population and conservation genetics and genomics

this book covers the complex interplay between various aspects of the environment and their profound impact on climate change it delves into the multidimensional aspects of the environmental nexus including comprehensive analysis of scientific research case studies and real world examples it encompasses key topics such as the role of forests and oceans in regulating climate the impact of urbanization and industrialization on greenhouse gas emissions and the importance of biodiversity conservation in mitigating environmental degradation features provides detailed insights into the recent developments of greenhouse gas emissions and mitigation strategies discusses topics related to climate and the sustainable development goals includes case studies of best practices as well as gaps and lessons learnt in relation to agroecosystems offers practical solutions and actionable recommendations for addressing climate change and managing the environmental nexus effectively this book is aimed at graduate students and researchers in environmental engineering climate change and agricultural sciences

this volume provides an interdisciplinary perspective of applying next generation sequencing ngs technology to cancer research it aims to systematically introduce the concept of ngs a variety of ngs platforms and their practical implications in cancer biology this unique and comprehensive text will integrate the unprecedented ngs technology into various cancer research projects as opposed to most books which offer a detailed description of the technology this volume will present true experimental results with concrete data processing pipelines discuss the bottleneck of each platform for real project in cancer research in additional single cancer cell sequencing as the proof of concept will be introduced in this book along with cutting edge information provided will help the intended audience to develop a comprehensive understanding of the ngs technology and practical whole genome sequencing data analysis and rapidly translate into their own research specifically in the field of cancer biology

companion and complementary diagnostics from biomarker discovery to clinical implementation provides readers with in depth insights into the individual steps in the development of companion diagnostic assays from the early biomarker discovery phase straight through to final regulatory approval further the clinical implementation of companion diagnostic testing in the clinic is also discussed as the development of predictive or selective biomarker assays linked to specific drugs is substantially increasing this book offers comprehensive information on this quickly evolving area of biomedicine it is an essential resource for those in academic institutions hospitals and pharma and biotech and diagnostic commercial companies covers all aspects from biomarker

discovery to development and regulatory approval explains the how to aspects of companion diagnostics incorporates information on the entire process allowing for easier and deeper understanding of the topic

market pharmacy and medical students neuroscientists neurologists pharmacologists updated edition has an attractive full color design with more illustrations includes numerous fact boxes to help reinforce learning

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