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KEY=FREE - GARRETT TYRONE

MEDICAL GENETICS

Elsevier Masson The emphasis of this book is on those aspects of medical genetics most useful in a modern clinical practice. Clinical aspects of molecular genetics research have been incorporated throughout the spectrum of genetically determined diseases.

MEDICAL GENETICS

GENETICS, ETHICS AND EDUCATION

Cambridge University Press A thorough cross-disciplinary exploration of the implications of genomics-influenced educational practice, for consideration by scientists, practitioners and laypersons alike.

GENETIC VARIATION AND ITS MAINTENANCE

Cambridge University Press This volume considers the genetic variability of human populations, particularly in the tropics: its origins and maintenance, and its contribution to the phenotypic variability of complex characters. The first section deals with the ways of analysing genetic variation and provides a valuable review of relevant developments in molecular biology. The origin and maintenance of genetic diversity is considered in the second section with data presented for Pacific, African, Asian and Central American populations. The final section concerns characters in which the genetic contribution to variability is complex and shows how such characters may be used to elucidate biological problems of affinity and differentiation, of adaptation and survival. Published as part of the Decade of the Tropics research programme of the International Union of Biological Sciences, this volume will be of particular interest to human geneticists, physical and biological anthropologists.

MEDICAL GENETICS E-BOOK

Elsevier Health Sciences Up to date and extensively revised to reflect recent advances in the genetics of common diseases, as well as current progress in gene therapy, Medical Genetics, 6th Edition, delivers easy-to-read, highly visual coverage of this rapidly changing field. This accessible, practical text integrates key concepts with clinical practice, highlighted by numerous illustrations, tables, concept summaries, and more – all designed to enhance effective learning and retention of complex material. Discusses current topics including polygenic risk scores and their potential applications for diabetes, cancer, and heart disease, and the latest sequencing technologies and their clinical application in genetic testing and diagnosis. Offers a completely updated discussion of genetic testing modalities and applications. Includes convenient concept summaries, more than 230 photographs, illustrations, and tables, as well as patient/family vignettes that present valuable perspectives on disease and treatment. Features Clinical Commentary boxes that demonstrate how the hard science of genetics has real applications to everyday patient problems, preparing you for problem-based integrated courses. Illustrates key concepts with disease examples to demonstrate relevance to medicine. Provides study questions for self-assessment, as well as 200 additional USMLE-style questions online. Enhanced eBook version included with purchase. Your enhanced eBook allows you to access all of the text, figures, and references from the book on a variety of devices.

CONSUMER GENETIC TECHNOLOGIES

ETHICAL AND LEGAL CONSIDERATIONS

Cambridge University Press Examines the ethical, legal, and regulatory challenges presented as genomics become commonplace, easily available consumer products.

ESSENTIALS OF MEDICAL GENETICS FOR HEALTH PROFESSIONALS

Jones & Bartlett Publishers Essentials of Medical Genetics for Health Professionals is a concise, accessible introduction to medical genetics for all health professions students. Even with limited exposure to genetics, students can use the accelerated approach in this text to attain a base foundation of genetics knowledge. This book begins with a review of chromosomes, DNA, RNA, protein synthesis, and inheritance patterns and continues with a clinical focus based on understanding different disease processes. A variety of genetic diseases are explored, including what is known about the genetics involved, the signs and symptoms of the disease, and the treatment options available. Accompanying tables and images aid comprehension. This book also covers diagnostic techniques and an overview of embryonic development and teratogens. The roles of genetic counseling and screening, as well as the ethical and legal issues related to genetic screening and genetic testing are also discussed. Complete with stated objectives, definition of key terms, references, chapter summaries and end of chapter review questions with answers, each chapter is organized for optimal learning. Essentials of Medical Genetics for Health Professionals will not only have application in the classroom setting for health professions or medical students, but practicing clinicians such as physician assistants, nurse practitioners, and physicians who want to learn more or revisit genetics will also find this book a valuable, useful resource. Instructor Resources include PowerPoint Slides, a TestBank, and an Image Bank.

A FIELD GUIDE TO GENETIC PROGRAMMING

Lulu.com Genetic programming (GP) is a systematic, domain-independent method for getting computers to solve problems automatically starting from a high-level statement of what needs to be done. Using ideas from natural evolution, GP starts from an ooze of random computer programs, and progressively refines them through processes of mutation and sexual recombination, until high-fitness solutions emerge. All this without the user having to know or specify the form or structure of solutions in advance. GP has generated a plethora of human-competitive results and applications, including novel scientific discoveries and patentable inventions. This unique overview of this exciting technique is written by three of the most active scientists in GP. See www.gp-field-guide.org.uk for more information on the book.

DEVELOPMENTAL AND FETAL ORIGINS OF DIFFERENCES IN MONOZYGOTIC TWINS

FROM GENETICS TO ENVIRONMENTAL FACTORS

Academic Press Developmental and Fetal Origins of Differences in Monozygotic Twins: From Genetics to Environmental Factors examines the major causes of discordance in monozygotic twins, from genetic, to environmental influences, including discussions on the genetic, epigenetic, fetal and environmental factors. Twin differences discussed include malformations, deformations and disruptions secondary to inequitable division of the early embryo, chromosome and single gene mosaicism, Nonrandom X chromosome inactivation, mitochondrial heteroplasmy, epigenetic variation, and variable and inequitable blood supply, among other influences. Differences in hemoglobin levels, placentation and amniotic fluid are also examined, while full color images illustrate discordant anomalies and twin differences throughout. Examines the major causes of discordance in monozygotic twins and their relevance for future studies and clinical management Discusses NIPT in MZ twins, twin imaging during fetal development, blood tests and forensic analysis Features contributions from international experts in twin genetics and developmental biology

BIOINFORMATICS FOR GENETICISTS

John Wiley & Sons

MEDICAL GENETICS

AITBS Publishers India The subject of genetics is gaining utmost importance in the medical science. However, most of the medical students find this subject difficult to understand and therefore, neglect it. The aim of this book is to present the text in such a way that it provides the clear and conceptual understanding of the subject. A simple and concise account of the genetic basis of various diseases, cancers and embryonic development is given to make the subject directly applicable to the medical science. It is hoped that the undergraduate and postgraduate students of medical science and clinicians will find this book interesting and useful.

BLUEPRINT

HOW DNA MAKES US WHO WE ARE

MIT Press A top behavioral geneticist makes the case that DNA inherited from our parents at the moment of conception can predict our psychological strengths and weaknesses. In Blueprint, behavioral geneticist Robert Plomin describes how the DNA revolution has made DNA personal by giving us the power to predict our psychological strengths and weaknesses from birth. A century of genetic research shows that DNA differences inherited from our parents are the consistent life-long sources of our psychological individuality—the blueprint that makes us who we are. This, says Plomin, is a game changer. Plomin has been working on these issues for almost fifty years, conducting longitudinal studies of twins and adoptees. He reports that genetics explains more of the psychological differences among people than all other factors combined. Genetics accounts for fifty percent of psychological differences—not just mental health and school achievement but all psychological traits, from personality to intellectual abilities. Nature, not nurture is what makes us who we are. Plomin explores the implications of this, drawing some provocative conclusions—among them that parenting styles don't really affect children's outcomes once genetics is taken into effect. Neither tiger mothers nor attachment parenting affects children's ability to get into Harvard. After describing why DNA matters, Plomin explains what DNA does, offering readers a unique insider's view of the exciting synergies that came from combining genetics and psychology.

INTRODUCTION TO POPULATION GENETICS

Benjamin-Cummings Publishing Company Making the theory of population genetics relevant to readers, this book explains the related mathematics with a logical organization. It presents the quantitative aspects of population genetics, and employs examples of human genetics, medical evolution, human evolution, and endangered species. For an introduction to, and understanding of, population genetics.

POPULATION GENETICS

John Wiley & Sons This book aims to make population genetics approachable, logical and easily understood. To achieve these goals, the book's design emphasizes well explained introductions to key principles and predictions. These are augmented with case studies as well as illustrations along with introductions to classical hypotheses and debates. Pedagogical features in the text include: Interact boxes that guide readers step-by-step through computer simulations using public domain software. Math boxes that fully explain mathematical derivations. Methods boxes that give insight into the use of actual genetic data. Numerous Problem boxes are integrated into the text to reinforce concepts as they are encountered. Dedicated website at www.wiley.com/go/hamiltongenetics This text also offers a highly accessible introduction to coalescent theory, the major conceptual advance in population genetics of the last two decades.

PRINCIPLES OF GENETICS

"This edition is packed with the latest developments and information from the labs of current researchers—including the latest findings from Genomics and RNA Interference."--Jacket

GENETICS, HEALTH CARE AND PUBLIC POLICY

AN INTRODUCTION TO PUBLIC HEALTH GENETICS

Cambridge University Press Genetics, Health Care and Public Policy is an introduction to the new discipline of public health genetics. It brings together the insights of genetic and molecular science as a means of protecting and improving the health of the population. Its scope is wide and requires an understanding of genetics, epidemiology, public health and the principles of ethics, law and the social sciences. This book sets out the basic principles of public health genetics for a wide audience from those providing health care to those involved in establishing policy. The emphasis throughout the text is on providing an accessible introduction to the field. The content moves from the basic concepts, including definitions and history, through chapters on genetics, genetic technology, epidemiology, genetics in medicine, genetics in health services, ethical, legal and social implications, to the implications for health policy. It provides one-stop, introductory coverage of this rapidly developing and multidisciplinary field.

GENETICS AND GENOMICS IN MEDICINE

Taylor & Francis Genetics and Genomics in Medicine is a new textbook written for undergraduate students, graduate students, and medical researchers that explains the science behind the uses of genetics and genomics in medicine today. Rather than focusing narrowly on rare inherited and chromosomal disorders, it is a comprehensive and integrated account of how geneti

METHODS FOR GENERAL AND MOLECULAR MICROBIOLOGY

American Society for Microbiology Press A first source for traditional methods of microbiology as well as commonly used modern molecular microbiological methods. • Provides a comprehensive compendium of methods used in general and molecular microbiology. • Contains many new and expanded chapters, including a section on the newly important field of community and genomic analysis. • Provides step-by-step coverage of procedures, with an extensive list of references to guide the user to the original literature for more complete descriptions. • Presents methods for bacteria, archaea, and for the first time a section on mycology. • Numerous schematics and illustrations (both color and black and white) help the reader to easily understand the topics presented.

A SHORT COURSE IN BACTERIAL GENETICS

A LABORATORY MANUAL AND HANDBOOK FOR ESCHERICHIA COLI AND RELATED BACTERIA

CSHL Press University of California, Los Angeles. Introduction to bacterial genetics, including laboratory methods, for advanced students and beginning researchers. Handbook with plastic spiral-bound laboratory manual.

THE PRACTICAL HANDBOOK OF GENETIC ALGORITHMS

NEW FRONTIERS, VOLUME II

CRC Press The mathematics employed by genetic algorithms (GAs) are among the most exciting discoveries of the last few decades. But what exactly is a genetic algorithm? A genetic algorithm is a problem-solving method that uses genetics as its model of problem solving. It applies the rules of reproduction, gene crossover, and mutation to pseudo-organism

HORIZONTAL GENE TRANSFER

METHODS AND PROTOCOLS

Humana This book focuses on technologies used to study horizontal gene transfer (HGT) in prokaryotes. Beginning with a section on the detection and isolation of mobile genetic elements (MGEs), the volume continues with sections concentrating on the analysis of conjugation, transformation, and transduction in HGT as well as a series of methods to analyze the adaptation and evolution of MGEs, with special attention paid to bioinformatics tools. Written for the highly successful Methods in Molecular Biology series, 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. Authoritative and practical, Horizontal Gene Transfer: Methods and Protocols serves as an ideal guide to the further study of this pervasive, all-important mechanism of genetic originality.

IMAGING GENE EXPRESSION

METHODS AND PROTOCOLS

Humana Press As imaging technologies and approaches have evolved, the scope of certain imaging techniques has moved far beyond the production of purely illustrative images or appealing time-lapse movies to providing the scientist with a rich range of ways to measure and quantify the biological process and outcome of gene expression. In Imaging Gene Expression: Methods and Protocols, expert authors offer up-to-date approaches and protocols that scientists in the field have developed, which would benefit the broader scientific community. Divided in three convenient parts, this detailed book covers the output of a gene, namely the RNA molecules that are transcribed from the gene and the way by which these molecules can be tracked or quantified in fixed or living cells, protocols that focus on the gene, DNA, or chromatin, as well as a variety of ways by which nuclear processes intertwined with gene expression can be followed and quantified in living cells as well as approaches for studying several sub-nuclear structures found in eukaryotic cells. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective subjects, lists of materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and up-to-date, Imaging Gene Expression: Methods and Protocols will serve researchers working toward imaging in the context of complete organisms.

THE MEDITERRANEAN GENETIC CODE

GRAPEVINE AND OLIVE

BoD - Books on Demand The book "The Mediterranean Genetic Code - Grapevine and Olive" collects relevant papers documenting the results of research in grapevine and olive genetics, as a contribution to overall compendium of the existing biodiversity for both species with insight into molecular mechanisms responsible for their desirable and important traits. Book encompasses a broad and diverse palette of different topics related to grapevine and olive genetics, with no areal or any other strict limitation, keeping the title as a loose frame for borderless science. Divided in four sections it takes us for a "molecular walk" through different levels of genetic variability, uncovering the remains of still existing wild populations and treasures of neglected local peculiarities, weaving the network from plant to product and back to the beginning, to the hearth of all questions asked and answers hidden in genetics.

THE ALFALFA GENOME

Springer Nature This book is the first comprehensive compilation of deliberations on whole genome sequencing of the diploid and tetraploid alfalfa genomes including sequence assembly, gene annotation, and comparative genomics with the model legume genome, functional genomics, and genomics of important agronomic characters. Other chapters describe the genetic diversity and germplasm collections of alfalfa, as well as development of genetic markers and genome-wide association and genomic selection for economical important traits, genome editing, genomics, and breeding targets to address current and future needs. Altogether, the book contains about 300 pages over 16 chapters authored by globally reputed experts on the relevant field in this crop. This book is useful to the students, teachers, and scientists in the academia and relevant private companies interested in genetics, breeding, pathology, physiology, molecular genetics and breeding, biotechnology, and structural and functional genomics. The work is also useful to seed and forage industries.

PISA TAKE THE TEST SAMPLE QUESTIONS FROM OECD'S PISA ASSESSMENTS

SAMPLE QUESTIONS FROM OECD'S PISA ASSESSMENTS

OECD Publishing This book presents all the publicly available questions from the PISA surveys. Some of these questions were used in the PISA 2000, 2003 and 2006 surveys and others were used in developing and trying out the assessment.

BROWN TROUT

BIOLOGY, ECOLOGY AND MANAGEMENT

John Wiley & Sons Brown Trout: Biology, Ecology and Management A comprehensive guide to the most current research, history, genetics and ecology of the brown trout including challenging environmental problems The brown trout is an iconic species across its natural European distribution and has been introduced throughout the World. Brown Trout offers a comprehensive review of the scientific information and current research on this major fish species. While the brown trout is the most sought species by anglers, its introduction to various waters around the world is causing serious environmental problems. At the same time, introduction of exogenous brown trout lineages threatens conservation of native gene pools of populations in many regions. The authors summarize the important aspects of the brown trout's life history and ecology and focus on the impact caused by the species. The text explores potential management strategies in order to maintain numerous damaged populations within its natural distributional range and to ameliorate its impacts in exotic environments. The authors include information on a wide-range of topics such as recent updates in population genetics, evolutionary history, reproductive traits and early ontogeny, life history plasticity in anadromous brown trout and life history of the adfluvial brown trout and much more. This vital resource: Contains the latest research on the biology and ecology of brown trout Includes information on phylogeography, genetics, population dynamics and stock management Spotlights the brown trout's introduction to regions around the world and the serious environmental impacts Offers a comprehensive review of conservation and management techniques Written for salmonid scientists and researchers, fishery and environmental managers, and students of population genetics, ecology and population dynamics, Brown Trout explores the most recent findings on the history, ecology and sustainability of this much-researched species.

TEMPORAL AND SPATIAL REGULATION OF PLANT GENES

Springer Science & Business Media First attempts to isolate plant genes were for those genes that are abundantly expressed in a particular plant organ at a specific stage of development. However, many important gene products are produced in a very minute quantity and in specialized cell types. Such genes can now be isolated using a variety of approaches, some of which are described in this volume. The rapid progress during the last decade in regeneration of a number of crop plants and the availability of molecular tools to introduce foreign genes in plants is allowing the engineering of specific traits of agricultural importance. These genes must, however, be regulated in a spatial and temporal manner in order to have desired effects on plant development and productivity. The habitat of plants necessitate adaptive responses with respect to the environmental changes. Starting from germination of the seed, the plant begins to sense environmental cues such as moisture, light, temperature and the presence of pathogens, and begins to respond to them. Little is known about various signal transduction pathways that lead to biochemical and morphogenetic responses, in particular, transition from vegetative to reproductive phase. With the availability of tools to generate specific mutations via transposon tagging, identification and isolation of genes affecting these processes may be facilitated. Transfer of these genes into heterologous environments will allow understanding of the

complex processes that control plant development.

NEURODEGENERATION

THE MOLECULAR PATHOLOGY OF DEMENTIA AND MOVEMENT DISORDERS

John Wiley & Sons Most textbooks on neurodegenerative disorders have used a classification scheme based upon either clinical syndromes or anatomical distribution of the pathology. In contrast, this book looks to the future and uses a classification based upon molecular mechanisms, rather than clinical or anatomical boundaries. Major advances in molecular genetics and the application of biochemical and immunocytochemical techniques to neurodegenerative disorders have generated this new approach. Throughout most of the current volume, diseases are clustered according to the proteins that accumulate within cells (e.g. tau, α -synuclein and TDP-43) and in the extracellular compartments (e.g. β -amyloid and prion proteins) or according to a shared pathogenetic mechanism, such as trinucleotide repeats, that are a feature of specific genetic disorders. Chapters throughout the book conform to a standard lay-out for ease of access by the reader and are written by a panel of International Experts Since the first edition of this book, major advances have been made in the discovery of common molecular mechanisms between many neurodegenerative diseases most notably in the frontotemporal lobar degenerations (FTLD) and motor neuron disease or amyotrophic lateral sclerosis. This book will be essential reading for clinicians, neuropathologists and basic neuroscientists who require the firm up-to-date knowledge of mechanisms, diagnostic pathology and genetics of Neurodegenerative diseases that is required for progress in therapy and management.

THE PRINCIPLES OF CLINICAL CYTOGENETICS

Humana PressInc Enlightening and accessible, The Principles of Clinical Cytogenetics constitutes an indispensable reference for today's physicians who depend on the cytogenetics laboratory for the diagnosis of their patients.

CONSERVATION GENETICS IN MAMMALS

INTEGRATIVE RESEARCH USING NOVEL APPROACHES

Springer Nature This book focuses on the use of molecular tools to study small populations of rare and endangered mammals, and presents case studies that apply an evolutionary framework to address innovative questions in the emerging field of mammalian conservation genomics using a highly diverse set of novel molecular tools. Novel and more precise molecular technologies now allow experts in the field of mammalogy to interpret data in a more contextual and empirical fashion and to better describe the evolutionary and ecological processes that are responsible for the patterns they observe. The book also demonstrates how recent advances in genetic/genomic technologies have been applied to assess the impact of environmental/anthropogenic changes on the health of small populations of mammals. It examines a range of issues in the field of mammalian conservation genomics, such as the role that the genetic diversity of the immune system plays in disease protection and local adaptation; the use of noninvasive techniques and genomic banks as a resource for monitoring and restoring populations; the structuring of population by physical barriers; and genetic diversity. Further, by integrating research from a variety of areas - including population genetics, molecular ecology, systematics, and evolutionary and conservation biology - it enables readers to gain a deeper understanding of the conservation biology of mammals that are at increasing risk of extinction at local, regional and global scales. As such, it offers a unique resource for a broad readership interested in the conservation biology of mammals and conservation management strategies to better preserve biodiversity.

HERITABLE HUMAN GENOME EDITING

National Academies Press Heritable human genome editing - making changes to the genetic material of eggs, sperm, or any cells that lead to their development, including the cells of early embryos, and establishing a pregnancy - raises not only scientific and medical considerations but also a host of ethical, moral, and societal issues. Human embryos whose genomes have been edited should not be used to create a pregnancy until it is established that precise genomic changes can be made reliably and without introducing undesired changes - criteria that have not yet been met, says Heritable Human Genome Editing. From an international commission of the U.S. National Academy of Medicine, U.S. National Academy of Sciences, and the U.K.'s Royal Society, the report considers potential benefits, harms, and uncertainties associated with genome editing technologies and defines a translational pathway from rigorous preclinical research to initial clinical uses, should a country decide to permit such uses. The report specifies stringent preclinical and clinical requirements for establishing safety and efficacy, and for undertaking long-term monitoring of outcomes. Extensive national and international dialogue is needed before any country decides whether to permit clinical use of this technology, according to the report, which identifies essential elements of national and international scientific governance and oversight.

GENETICS

John Wiley & Sons Snustad's 6th edition of Principles of Genetics offers many new and advanced features including boxed sections with the latest advances in Genetics, a streamlined roster of topics, a more reader-friendly layout, and new problem-solving supplements. Furthermore, this new edition includes more problem solving within each chapter through the Test Your Problem Solving Skills feature and a Solve It icon to prompt readers to go online to WileyPlus for animated tutorials. A new one-column design better showcases important pieces of art and avoids the "overwhelmed" reaction readers have to the crowded layouts found in many other texts. Boxed sections reduce in size to help maintain the flow of the text and the Focus On boxes are revised to include the most current developments in genetics as well as most relevant topics.

HUMAN GENETICS AND GENOMICS

John Wiley & Sons This fourth edition of the best-selling textbook, Human Genetics and Genomics, clearly explains the key principles needed by medical and health sciences students, from the basis of molecular genetics, to clinical applications used in the treatment of both rare and common conditions. A newly expanded Part 1, Basic Principles of Human Genetics, focuses on introducing the reader to key concepts such as Mendelian principles, DNA replication and gene expression. Part 2, Genetics and Genomics in Medical Practice, uses case scenarios to help you engage with current genetic practice. Now featuring full-color diagrams, Human Genetics and Genomics has been rigorously updated to reflect today's genetics teaching, and includes updated discussion of genetic risk assessment, "single gene" disorders and therapeutics. Key learning features include: Clinical snapshots to help relate science to practice 'Hot topics' boxes that focus on the latest developments in testing, assessment and treatment 'Ethical issues' boxes to prompt further thought and discussion on the implications of genetic developments 'Sources of information' boxes to assist with the practicalities of clinical research and information provision Self-assessment review questions in each chapter Accompanied by the Wiley E-Text digital edition (included in the price of the book), Human Genetics and Genomics is also fully supported by a suite of online resources at www.korfgenetics.com, including: Factsheets on 100 genetic disorders, ideal for study and exam preparation Interactive Multiple Choice Questions (MCQs) with feedback on all answers Links to online resources for further study Figures from the book available as PowerPoint slides, ideal for teaching purposes The perfect companion to the genetics component of both problem-based learning and integrated medical courses, Human Genetics and Genomics presents the ideal balance between the bio-molecular basis of genetics and clinical cases, and provides an invaluable overview for anyone wishing to engage with this fast-moving discipline.

GENETICS AND SPORTS

Karger Medical and Scientific Publishers This second edition of Genetics and Sports expands on topics previously discussed in an attempt to create an integrated and holistic understanding of the field of sports genomics. It is an update on technologies and on the role of genetics in training, performance, injury, and other exercise-related phenotypes. Ethical concerns and the importance of counselling before and after genetic testing are also addressed. It is increasingly important to understand the field of genetics and sports because of the potential to use and misuse information. All exercise scientists, sport and exercise clinicians, athletes, and coaches need to be adequately informed to ensure that genetic information is accurately and properly used. Genetics and Sports is, therefore, highly recommended to all of these groups.

A PRIMER OF POPULATION GENETICS

Sinauer Associates Incorporated In response to many requests, the Third Edition of A Primer of Population Genetics has been dramatically shortened and streamlined for greater accessibility. Designed primarily for undergraduates, it will also serve for graduate students and professionals in biology and other sciences who desire a concise but comprehensive overview of the field with a primary focus on the integration of experimental results with theory. The abundance of experimental data generated by the use of molecular methods to study genetic polymorphisms sparked a transformation in the field of population genetics. Present in virtually all organisms, molecular polymorphisms allow populations to be studied without regard to species or habitat, and without the need for controlled crosses, mutant genes, or for any prior genetic studies. Thus a familiarity with population genetics has become essential for any biologist whose work is at the population level. These fields include evolution, ecology, systematics, plant breeding, animal breeding, conservation and wildlife management, human genetics, and anthropology. Population genetics seeks to understand the causes of genetic differences within and among species, and molecular biology provides a rich repertoire of techniques for identifying these differences.

GENETICS AND GENOMICS OF PAPAYA

Springer Science & Business Media This book reviews various aspects of papaya genomics, including existing genetic and genomic resources, recent progress on structural and functional genomics, and their applications in papaya improvement. Organized into four sections, the volume explores the origin and domestication of papaya, classic genetics and breeding, recent progress on molecular genetics, and current and future applications of genomic resources for papaya improvement. Bolstered by contributions from authorities in the field, Genetics and Genomics of Papaya is a valuable resource that provides the most up to date information for papaya researchers and plant biologists.

PRINCIPLES OF PLANT GENETICS AND BREEDING

John Wiley & Sons To respond to the increasing need to feed the world's population as well as an ever greater demand for a balanced and healthy diet there is a continuing need to produce improved new cultivars or varieties of plants, particularly crop plants. The strategies used to produce these are increasingly based on our knowledge of relevant science, particularly genetics, but involves a multidisciplinary understanding that optimizes the approaches taken. Principles of Plant Genetics and Breeding, 2nd Edition introduces both classical and molecular tools for plant breeding. Topics such as biotechnology in plant breeding, intellectual property, risks, emerging concepts (decentralized breeding, organic breeding), and more are addressed in the new, updated edition of this text. Industry highlight boxes are included throughout the text to contextualize the information given through the professional experiences of plant breeders. The final chapters provide a useful reference on breeding the largest and most common crops. Up-to-date edition of this bestselling book incorporating the most recent technologies in the field Combines both theory and practice in modern plant breeding Updated industry highlights help to illustrate the concepts outlined in the text Self assessment questions at the end of each chapter aid student learning Accompanying website with artwork from the book available to instructors

PSYCHOLOGY

The images in this textbook are in grayscale. There is a color version available - search for ISBN 9781680922370. Psychology is designed to meet scope and sequence requirements for the single-semester introduction to psychology course. The book offers a comprehensive treatment of core concepts, grounded in both classic studies and current and emerging research. The text also includes coverage of the DSM-5 in examinations of psychological disorders. Psychology incorporates discussions that reflect the diversity within the discipline, as well as the diversity of cultures and communities across the globe.

AN INTRODUCTION TO GENETIC ENGINEERING

Cambridge University Press The author presents a basic introduction to the world of genetic engineering. Copyright © Libri GmbH. All rights reserved.

PERINATOLOGY

EVIDENCE-BASED BEST PRACTICES IN PERINATAL MEDICINE

Springer Nature