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Experiments in Plant Hybridisation

Cosimo, Inc. Experiments which in previous years were made with ornamental plants have already afforded evidence that the hybrids, as a rule, are not exactly intermediate between the parental species. With some of the more striking characters, those, for instance, which relate to the form and size of the leaves, the pubescence of the several parts, etc., the intermediate, indeed, is nearly always to be seen; in other cases, however, one of the two parental characters is so preponderant that it is difficult, or quite impossible, to detect the other in the hybrid. from 4. The Forms of the Hybrid One of the most influential and important scientific works ever written, the 1865 paper Experiments in Plant Hybridisation was all but ignored in its day, and its author, Austrian priest and scientist GREGOR JOHANN MENDEL (1822-1884), died before seeing the dramatic long-term impact of his work, which was rediscovered at the turn of the 20th century and is now considered foundational to modern genetics. A simple, eloquent description of his 1856-1863 study of the inheritance of traits in pea plants Mendel analyzed 29,000 of them this is essential reading for biology students and readers of science history. Cosimo presents this compact edition from the 1909 translation by British geneticist WILLIAM BATESON (1861-1926).

Safety of Genetically Engineered Foods

Approaches to Assessing Unintended Health Effects

National Academies Press Assists policymakers in evaluating the appropriate scientific methods for detecting unintended changes in food and assessing the potential for adverse health effects from genetically modified products. In this book, the committee recommended that greater scrutiny should be given to foods containing new compounds or unusual amounts of naturally occurring substances, regardless of the method used to create them. The book offers a framework to guide federal agencies in selecting the route of safety assessment. It identifies and recommends several pre- and post-market approaches to guide the assessment of unintended compositional changes that could result from genetically modified foods and research avenues to fill the knowledge gaps.

S.Chand' S Biology -XII - CBSE

S. Chand Publishing S.Chand' S Biology -XII - CBSE

Primer of Genetic Analysis

A Problems Approach

Cambridge University Press An invaluable student-tested study aid, this primer, first published in 2007, provides guided instruction for the analysis and interpretation of genetic principles and practice in problem solving. Each section is introduced with a summary of useful hints for problem solving and an overview of the topic with key terms. A series of problems, generally progressing from simple to more complex, then allows students to test their understanding of the material. Each question and answer is accompanied by detailed explanation. This third edition includes additional problems in basic areas that often challenge students, extended coverage in molecular biology and development, an expanded glossary of terms, and updated historical landmarks. Students at all levels, from beginning biologists and premedical students to graduates seeking a review of basic genetics, will find this book a valuable aid. It will complement the formal presentation in any genetics textbook or stand alone as a self-paced review manual.

An Introduction to Forest Genetics

Concepts of Biology

Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, *Concepts of Biology* is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand. We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of *Concepts of Biology* is that instructors can customize the book, adapting it to the approach that works best in their classroom. *Concepts of Biology* also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

Principles of Genetics

John Wiley & Sons *Principles of Genetics* is one of the most popular texts in use for the introductory course. It opens a window on the rapidly advancing science of genetics by showing exactly how genetics is done. Throughout, the authors incorporate a human emphasis and highlight the role of geneticists to keep students interested and motivated. The seventh edition has been completely updated to reflect the latest developments in the field of genetics. *Principles of Genetics* continues to educate today's students for tomorrow's science by focusing on features that aid in content comprehension and application. This text is an unbound, three hole punched version.

Plant Evolution

An Introduction to the History of Life

University of Chicago Press Although plants comprise more than 90% of all visible life, and land plants and algae collectively make up the most morphologically, physiologically, and ecologically diverse group of organisms on earth, books on evolution instead tend to focus on animals. This organismal bias has led to an incomplete and often erroneous understanding of evolutionary theory. Because plants grow and reproduce differently than animals, they have evolved differently, and generally accepted evolutionary views—as, for example, the standard models of speciation—often fail to hold when applied to them. Tapping such wide-ranging topics as genetics, gene regulatory networks, phenotype mapping, and multicellularity, as well as paleobotany, Karl J. Niklas's *Plant Evolution* offers fresh insight into these differences. Following up on his landmark book *The Evolutionary Biology of Plants*—in which he drew on cutting-edge computer simulations that used plants as models to illuminate key evolutionary theories—Niklas incorporates data from more than a decade of new research in the flourishing field of molecular biology, conveying not only why the study of evolution is so important, but also why the study of plants is essential to our understanding of evolutionary processes. Niklas shows us that investigating the intricacies of plant development, the diversification of early vascular land plants, and larger patterns in plant evolution is not just a botanical pursuit: it is vital to our comprehension of the history of all life on this green planet.

Polyploidy and Genome Evolution

Springer Science & Business Media Polyploidy - whole-genome duplication (WGD) - is a fundamental driver of biodiversity with significant consequences for genome structure, organization, and evolution. Once considered a speciation process common only in plants, polyploidy is now recognized to have played a major role in the structure, gene content, and evolution of most eukaryotic genomes. In fact, the diversity of eukaryotes seems closely tied to multiple WGDs. Polyploidy generates new genomic interactions - initially resulting in "genomic and transcriptomic shock" - that must be resolved in a new polyploid lineage. This process essentially acts as a "reset" button, resulting in genomic changes that may ultimately promote adaptive speciation. This book brings together for the first time the conceptual and theoretical underpinnings of polyploid genome evolution with

syntheses of the patterns and processes of genome evolution in diverse polyploid groups. Because polyploidy is most common and best studied in plants, the book emphasizes plant models, but recent studies of vertebrates and fungi are providing fresh perspectives on factors that allow polyploid speciation and shape polyploid genomes. The emerging paradigm is that polyploidy - through alterations in genome structure and gene regulation - generates genetic and phenotypic novelty that manifests itself at the chromosomal, physiological, and organismal levels, with long-term ecological and evolutionary consequences.

Sex Chromosomes

Academic Press **Sex Chromosomes** focuses on the study of sex chromosomes, including human chromosomal abnormalities, behavior and characteristics of chromosomes, and cell division. The book first offers information on the chromosomal basis of sex determination, as well as development of the cell theory, mitosis, fertilization, meiosis, and discovery of sex chromosomes. The publication also ponders on the mitosis, meiosis, and formation of gametes. Discussions focus on the special characteristics of sex chromosomes, abnormalities of cell division, and sexual differentiation. The manuscript reviews sex chromosomes in plants, *Drosophila*, and *Lepidoptera*. The book also examines sex-chromosome mechanisms that differ the classic type; sex chromosomes in fishes, amphibia, reptiles, and birds; and sex chromosomes in man. Discussions focus on normal human sex chromosomes, Turner's syndrome, Klinefelter's syndrome, true hermaphrodites, testicular feminization, and pseudohermaphrodites. Sex chromosomes in mammals other than man, including monotremata, marsupialia, insectivora, rodentia, and carnivora, are discussed. The publication is a dependable reference for readers interested in the study of sex chromosomes.

Science as a Way of Knowing

The Foundations of Modern Biology

Harvard University Press This book makes Moore's wisdom available to students in a lively, richly illustrated account of the history and workings of life. Employing rhetoric strategies including case histories, hypotheses and deductions, and chronological narrative, it provides both a cultural history of biology and an introduction to the procedures and values of science.

Concepts of Genetics: Pearson New International Edition

Pearson Higher Ed **Concepts of Genetics** is known for its focus on teaching core concepts and problem solving. This best-selling text has been extensively updated, with coverage on emerging topics in genetics, and problem-solving support has been enhanced.

The Cooperative Gene

How Mendel's Demon Explains the Evolution of Complex Beings

Simon and Schuster A study of the history of life on Earth explains how microscopic life evolved into large, complex animals and speculates on the various ways in which biotechnology can change our thinking about evolution and complex living organisms.

Solving Problems in Genetics

Springer Science & Business Media This book helps readers to understand the analysis of genetic problems. Many students have a great deal of difficulty doing genetic analysis; this book emphasizes solutions, not just answers. The strategy is to provide the reader with the essential steps and the reasoning involved in conducting the analysis. Throughout the book, an attempt is made to present a balanced account of genetics. Topics center on Mendelian, cytogenetic, molecular, quantitative, and population genetics, with a few more specialized areas. Where relevant, the appropriate statistics necessary to make the analyses are provided.

Genetics, 9th Edition (Multicolour Edition)

S. Chand Publishing This book is especially prepared for the students of B.Sc. and M.Sc. of different Indian Universities as per UGC Model Curriculum. Students, preparing for Medical Entrance Examination, IAS, IFS, and PCS etc. will also be benefited by this book. At the end of some chapters of Genetic Engineering may enlighten the target readers. Entirely new information on Quantitative Genetics and Immunogenetics may enthrall the readers. MCQ's and answers will also be helpful for the students to strengthen their self confidence. By the help of numerous figures, many tables, boxes and coloured photographs, this book has tried to serve a balanced account of Classical Genetics and Modern Molecular Genetics. • This book is for Graduate, P.G. students of Biophysics, Microbiology & Biological Sciences.

Specialty Corns, Second Edition

CRC Press Completely revised and updated, the Second Edition of **Specialty Corns** includes everything in the first edition and more. Considered the standard in this field, significant changes have been made to keep all the information current and bring the references up-to-date. Two new chapters have been added to keep up with the latest trends: **Blue Corn** and **Baby Corn**. Access the latest methods in developing specialty corns with this standard-setting reference. Edited by an expert in the field who has spent his professional life working with corn, **Specialty Corns, Second Edition** discusses the genetic variation inherent in corn, genetic materials available, breeding methods, and special problems associated with the development of specialty corns. Hallauer has assembled a team of international experts who have contributed to this work.

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

Selection and Breeding Programs in Aquaculture

Springer Science & Business Media Although aquaculture as a biological production system has a long history, systematic and efficient breeding programs to improve economically important traits in the farmed species have rarely been utilized until recently, except for salmonid species. This means that the majority of aquaculture production (more than 90 %) is based on genetically unimproved stocks. In farm animals the situation is vastly different: practically no terrestrial farm production is based on genetically unimproved and undomesticated populations. This difference between aquaculture and livestock production is in spite of the fact that the basic elements of breeding theory are the same for fish and shellfish as for farm animals. One possible reason for the difference is the complexity of reproductive biology in aquatic species, and special consideration needs to be taken in the design of breeding plans for these species. Since 1971 AKVAFORSK, has continuously carried out large scale breeding research projects with salmonid species, and during the latest 15 years also with a number of fresh water and marine species. Results from this work and the results from other institutions around the world have brought forward considerable knowledge, which make the development of efficient breeding programs feasible. The genetic improvement obtained in selection programs for fish and shellfish is remarkable and much higher than what has been achieved in terrestrial farm animals.

Mendel's Principles of Heredity

Cosimo, Inc. Gregor Mendel first began studying inheritance in pea plants in 1856. While Darwin may have convinced the scientific community that evolution occurred, Mendel discovered some of the rules for this process. By breeding hybrid plants together, he was able to determine that there were dominant and recessive traits. And these traits would appear with a predictable and particular frequency in a given set of offspring. **Mendel's Principles of Heredity** is the 1913 translation, with added commentary, of Mendel's original work by British scientist WILLIAM BATESON (1861-1926), who coined the term genetics to refer to heredity and inherited traits. Anyone with an interest in science and genetics will find a wealth of information about one of the most revolutionary insights in modern science.

Principles of Biology

Biology 211, 212, and 213

The Principles of Biology sequence (BI 211, 212 and 213) introduces biology as a scientific discipline for students planning to major in biology and other science disciplines. Laboratories and classroom activities introduce techniques used to study biological processes and provide opportunities for students to develop their ability to conduct research.

Genomes 3

Garland Science The VitalBook e-book version of Genomes 3 is only available in the US and Canada at the present time. To purchase or rent please visit <http://store.vitalsource.com/show/9780815341383> Covering molecular genetics from the basics through to genome expression and molecular phylogenetics, Genomes 3 is the latest edition of this pioneering textbook. Updated to incorporate the recent major advances, Genomes 3 is an invaluable companion for any undergraduate throughout their studies in molecular genetics. Genomes 3 builds on the achievements of the previous two editions by putting genomes, rather than genes, at the centre of molecular genetics teaching. Recognizing that molecular biology research was being driven more by genome sequencing and functional analysis than by research into genes, this approach has gathered momentum in recent years.

Objective NCERT for NEET 2020 (Volume 2)

Luiyp This book would be suitable for students preparing for different competitive exams at different stages of preparation. So, whether you have just come in class XI/XII or dropping a year to prepare for competitive exams or you have to appear in the exam one week from now, this book has questions which have the ability to change things dramatically in a short period of time. Important points of the book: 1) Having questions based on the latest pattern of NEET. 2) Having a large series of possible questions appearing in the exam. 3) Having simple and quick understandable questions to help all students to make them bright. 4) The book provides answers to all questions. 5) Book include a variation of objective type questions in the form of multiple-choice questions. 6) Questions from all types of competitive examinations have been involved.

Handbook of Statistical Genetics

John Wiley & Sons The Handbook for Statistical Genetics is widely regarded as the reference work in the field. However, the field has developed considerably over the past three years. In particular the modeling of genetic networks has advanced considerably via the evolution of microarray analysis. As a consequence the 3rd edition of the handbook contains a much expanded section on Network Modeling, including 5 new chapters covering metabolic networks, graphical modeling and inference and simulation of pedigrees and genealogies. Other chapters new to the 3rd edition include Human Population Genetics, Genome-wide Association Studies, Family-based Association Studies, Pharmacogenetics, Epigenetics, Ethic and Insurance. As with the second Edition, the Handbook includes a glossary of terms, acronyms and abbreviations, and features extensive cross-referencing between the chapters, tying the different areas together. With heavy use of up-to-date examples, real-life case studies and references to web-based resources, this continues to be must-have reference in a vital area of research. Edited by the leading international authorities in the field. David Balding - Department of Epidemiology & Public Health, Imperial College An advisor for our Probability & Statistics series, Professor Balding is also a previous Wiley author, having written Weight-of-Evidence for Forensic DNA Profiles, as well as having edited the two previous editions of HSG. With over 20 years teaching experience, he's also had dozens of articles published in numerous international journals. Martin Bishop - Head of the Bioinformatics Division at the HGMP Resource Centre As well as the first two editions of HSG, Dr Bishop has edited a number of introductory books on the application of informatics to molecular biology and genetics. He is the Associate Editor of the journal Bioinformatics and Managing Editor of Briefings in Bioinformatics. Chris Cannings - Division of Genomic Medicine, University of Sheffield With over 40 years teaching in the area, Professor Cannings has published over 100 papers and is on the editorial board of many related journals. Co-editor of the two previous editions of HSG, he also authored a book on this topic.

The Causes and Consequences of Chromosomal Aberrations

CRC Press The Causes and Consequences of Chromosomal Aberrations explores one of the most dramatic examples of genomic instability-chromosomal aberrations. It describes some of the more recent techniques used to map genes within the human genome, study chromosomal aberrations at the cellular level, and define the organization of the interphase nucleus. General overviews are provided to build a conceptual framework for understanding the generality and specificity of chromosomal aberrations. The Causes and Consequences of Chromosomal Aberrations also explores the role of recombinases and topoisomerases in the development of chromosomal aberrations. It contains studies of chromosomal aberrations, which offer separate instructive treatises on specific malignancies. The Causes and Consequences of Chromosomal Aberrations is useful to medical and graduate students, physicians, molecular biologists, and cytogeneticists. It will benefit anyone interested in the concepts, contributions, and development in the field of molecular cytogenetics.

ABC of Clinical Genetics

BMJ Books Genetics is now a part of everyday medicine, and the demand for genetic investigation and counselling is increasing. It is vital that all doctors are informed about the subject and its possibilities, but many are put off by the complex concepts involved. With the help of many high quality illustrations, the ABC of Clinical Genetics explains in simple terms genetic mechanisms and analysis, and gives all of the clinical information necessary for doctors and other health professionals to advise patients on genetic disorders. It also discusses the implications of these diseases for relatives and the ethical human dilemmas involved. Topics include: Inheritance, estimation of risk, and detection of carriers Chromosomal disorders Genetics of common disorders Genetics of cancer Dysmorphology and teratogenesis Gene structure and function DNA analysis This second edition has been fully updated and has further chapters dealing with new aspects of inheritance and new Knowledge of molecular genetics of common disorders. It provides a simple but comprehensive introduction to clinical genetics for doctors, medical students, nurses and midwives.

The Physical Basis of Heredity

Wentworth Press This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Campbell Biology

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Introduction to Pharmaceutical Biotechnology, Volume 1

Basic Techniques and Concepts

Animal biotechnology is a broad field including polarities of fundamental and applied research, as well as DNA science, covering key topics of DNA studies and its recent applications. In Introduction to Pharmaceutical Biotechnology, DNA isolation procedures followed by molecular markers and screening methods of the genomic library are explained in detail. Interesting areas such as isolation, sequencing and synthesis of genes, with broader coverage of the latter, are also described. The book begins with an introduction to

biotechnology and its main branches, explaining both the basic science and the applications of biotechnology-derived pharmaceuticals, with special emphasis on their clinical use. It then moves on to the historical development and scope of biotechnology with an overall review of early applications that scientists employed long before the field was defined. Additionally, this book offers first-hand accounts of the use of biotechnology tools in the area of genetic engineering and provides comprehensive information related to current developments in the following parameters: plasmids, basic techniques used in gene transfer, and basic principles used in transgenesis. The text also provides the fundamental understanding of stem cell and gene therapy, and offers a short description of current information on these topics as well as their clinical associations and related therapeutic options.

Handbook of Human Genetic Linkage

JHU Press "A good reference for statisticians and other analysts becoming involved in the popular field of 'gene mapping'." -- *American Journal of Human Genetics*

Molecular Exercise Physiology

An Introduction

Routledge **Molecular Exercise Physiology: An Introduction** is the first student-friendly textbook to be published on this key topic in contemporary sport and exercise science. It introduces sport and exercise genetics and the molecular mechanisms by which exercise causes adaptation. The text is linked to real life sport and exercise science situations such as 'what makes people good at distance running?', 'what DNA sequence variations code for a high muscle mass?' or 'by what mechanisms does exercise improve type2 diabetes?' The book includes a full range of useful features, such as summaries, definitions of key terms, guides to further reading, review questions, personal comments by molecular exercise pioneers (Booth, Bouchard) and leading research in the field, as well as descriptions of research methods. A companion website offers interactive and downloadable resources for both student and lecturers. Structured around central themes in sport and exercise science, such as nutrition, endurance training, resistance training, exercise & chronic disease and ageing, this book is the perfect foundation around which to build a complete upper-level undergraduate or postgraduate course on molecular exercise physiology.

Introduction to Evolutionary Computing

Springer Science & Business Media The first complete overview of evolutionary computing, the collective name for a range of problem-solving techniques based on principles of biological evolution, such as natural selection and genetic inheritance. The text is aimed directly at lecturers and graduate and undergraduate students. It is also meant for those who wish to apply evolutionary computing to a particular problem or within a given application area. The book contains quick-reference information on the current state-of-the-art in a wide range of related topics, so it is of interest not just to evolutionary computing specialists but to researchers working in other fields.

A History of Genetics

CSHL Press In the small "Fly Room" at Columbia University, T.H. Morgan and his students, A.H. Sturtevant, C.B. Bridges, and H.J. Muller, carried out the work that laid the foundations of modern, chromosomal genetics. The excitement of those times, when the whole field of genetics was being created, is captured in this book, written in 1965 by one of those present at the beginning. His account is one of the few authoritative, analytic works on the early history of genetics. This attractive reprint is accompanied by a website, <http://www.esp.org/books/sturt/history/> offering full-text versions of the key papers discussed in the book, including the world's first genetic map.

Barron's AP Biology

Simon and Schuster **Barron's AP Biology** is one of the most popular test preparation guides around and a "must-have" manual for success on the Biology AP Test. In this updated book, test takers will find: Two full-length exams that follow the content and style of the new AP exam All test questions answered and explained An extensive review covering all AP test topics Hundreds of additional multiple-choice and free-response practice questions with answer explanations This manual can be purchased alone, or with an optional CD-ROM that includes two additional practice tests with answers and automatic scoring

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.

Betrayers of the Truth

Simon & Schuster "Fraud and deceit in the halls of science"--Cover subtitle.

Explorations

An Open Invitation to Biological Anthropology

Welcome to Explorations and biological anthropology! An electronic version of this textbook is available free of charge at the Society for Anthropology in Community Colleges' webpage here: www.explorations.americananthro.org

Genetics

A Conceptual Approach

Macmillan Higher Education **With Genetics: A Conceptual Approach**, Ben Pierce brings a master teacher's experiences to the introductory genetics textbook, clarifying this complex subject by focusing on the big picture of genetics concepts and how those concepts connect to one another.

Studies in Genetics

The Selected Papers of H.J. Muller

Life Sciences, Grade 12

Clinical Precision Medicine

A Primer

Academic Press **Clinical Precision Medicine: A Primer** offers clinicians, researchers and students a practical, up-to-date resource on precision medicine, its evolving technologies, and pathways towards clinical implementation. Early chapters address the fundamentals of molecular biology and gene regulation as they relate to precision medicine, as well as the foundations of heredity and epigenetics. Oncology, an early adopter of precision approaches, is considered with its relationship to genetic variation in drug metabolism, along with tumor immunology and the impact of DNA variation in clinical care. Contributions by Stephanie Kramer, a Clinical Genetic Counselor, also provide current information on prenatal diagnostics and adult genetics that highlight the critical role of genetic counselors in the era of precision medicine. Includes applied discussions of chromosomes and chromosomal abnormalities, molecular genetics, epigenetic regulation, heredity, clinical genetics, pharmacogenomics and immunogenomics Features chapter contributions from leaders in the field Consolidates fundamental concepts and current practices of precision medicine in one convenient resource