Molecular Basis Of Inheritance Of Class 12

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EATON ARELLANO

The Metabolic & Molecular Bases of Inherited Disease American Medical Publishers
The purpose of this book is to present classical plant development in modern, molecular-genetic terms. The study of plant development is rapidly changing as plant genome projects uncover a multitude of new genes. This book provides a framework for integrating gene discovery and genome analysis into the context of plant development. Molecular Genetics of Plant Development is designed to be used as a text-book for upper-division or graduate courses in plant development. The book will also serve as a reference book for scientists in the field of plant molecular biology or plant molecular genetics. The book is also useful for general development courses in which both animal and plant development are presented.
Molecular Genetics of Yeast Springer Science & Business Media
This is a concise overview of a complex and fast moving field. The text explains amongst many things the special problems encountered in human genome analysis. Boxed case studies are incorporated to help student comprehension of this topic.
Solving Problems in Genetics Academic Press
In this book, the clinical chapters are organized into sections by defined developmental pathways or gene families, and each section is preceded by a general overview. For each disorder the authors cover the disease-causing genes, the role of these genes in development as elucidated in model organisms, the human mutations that have been identified, and the developmental pathogenesis of the condition. Clinical descriptions, along with discussions of therapy and counseling, are provided. This book will be an invaluable resource for physicians, dentists, and other health professionals and for basic scientists interested in developmental processes and genetic perturbations that affect them.
Human Molecular Genetics Wiley-Blackwell
The biological field in which the functions and structure of human genes are studied at the molecular level is referred to as human molecular genetics. It uses various tools from molecular biology and genetics. The molecular basis of biological activity between biomolecules in the diverse systems of a cell is studied under molecular biology. Genetics deals with the study of genes, heredity and genetic variation in organisms. Human molecular genetics finds its application in the study of developmental biology as well as in the treatment of genetic diseases. There are diverse techniques that are used within this field such as forward genetics, reverse genetics and DNA replication. This book attempts to understand the multiple branches that fall under human molecular genetics and how such concepts have practical applications. The topics covered herein deal with the core aspects of this field. This book includes contributions of experts and scientists which will provide innovative insights into this field.
The Evaluation of Forensic DNA Evidence John Wiley & Sons
Human Molecular Genetics is a practical guide to the applications of molecular biology and genetics techniques to human cells. A wide range of experimental procedures for investigating human genes and genomes are presented. * * Mutation Detection in Human Genes - chemical mismatch cleavage, DNA mini-sequencing, SSCP method, RT-PCR, electrophoretic mobility shift assay (EMSA), protein truncation test, chromosome deletion analysis. * Gene Mapping, Cloning, Sequencing - gene linkage determination, large-capacity cloning system, cDNA isolation, differential display method, primer-based DNA sequencing. * Transcription: Promoters, Transcription Factors, mRNA, - promotor mutation analysis, transcription factor identification, mRNA-protein interaction characterization. * RNA Editing, Ribozymes, Antisense RNA-mammalian RNA editing assays, ribozymes as genetic tools, antisense RNA technology. * Genome Recombination, Amplification - recombination assays for mammalian cells, gene amplification measurement. * Receptors, Signal Transduction - intra-cellular receptor characterization, analysis of signal transduction genes. * The Mouse as a Model System for Human Molecular Genetics - mouse genome methods (mouse crosses, somatic cell hybrids, YACs), mouse model for cardiovascular disease.
Human Molecular Genetics Oxford University Press, USA
The fifth edition of this highly successful book provides students with an essential introduction to the molecular genetics of bacteria covering the basic concepts and the latest developments. It is comprehensive, easy to use and well structured with clear two-colour diagrams throughout. Specific changes to the new edition include: More detail on sigma factors, anti-sigma factors and anti-anti sigma factors, and the difference in the frequency of sigma factors in bacteria Expand material on integrons as these are becoming increasingly important in antibiotic resistance Enhanced treatment of molecular phylogeny Complete revision and updating of the final chapter on ‘Gene Mapping and Genomics’ Two-colour illustrations throughout. The focus of the book remains firmly on bacteria and will be invaluable to students studying microbiology, biotechnology, molecular biology, biochemistry, genetics and related biomedical sciences.
The molecular basis of gene expression Elsevier
Our understanding of the molecular genetics of immunoglobulins has been enormously advanced by the application of recombinant DNA technology. This new volume in the popular series New Comprehensive Biochemistry contains eight chapters that draw together reviews summarising the research into immunoglobulins and the arrangement, rearrangement and expression of their gene structure. Molecular Genetics of

Immunoglobulin will be of particular importance to those working in the areas of genetics and molecular biology, immunology, and cell biology.

Inborn Errors of Development Elsevier

Human Molecular Biology is an introduction to the language of health and disease for the new generation of life scientists and medical students. By integrating cutting-edge molecular genetics and biochemistry with the latest clinical information, the book weaves a pattern which unifies biology with syndromes, genetic pathways with developmental phenotypes, and protein function with drug action. From the origins of life to the present day, a narrative is traced through the workings of genomes, cells and organ systems, culminating in linking of laboratory technologies to future research horizons.

Molecular Structure of Nucleic Acids Gulf Professional Publishing

Advances in Gene Technology: Molecular Genetics of Plants and Animals contains the proceedings of the Miami Winter Symposium held in January 1983 in Miami, Florida. The papers explore advances in the molecular genetics of plants and animals and cover a wide range of topics such as genetic manipulation of plants; plant cell cultures, regeneration, and somatic cell fusion; and nitrogen fixation. Practical applications of gene technology with plants are also discussed. Comprised of 84 chapters, this volume begins with an overview of how plants manufacture from carbon dioxide and water all of their substances, paying particular attention to the path of carbon in photosynthesis. The organization of the plant genome is then considered, along with techniques for cell culture, regeneration, and somatic cell fusion; vector systems; and nitrogen fixation. Some chapters focus on gene transfer by protoplast fusion; somatic cell genetic systems in corn; regulation of transcription of the nitrogen fixation operons; and leghemoglobin and nodulin genes of soybean. The final section is devoted to practical applications of gene technology to plants and to technology frontiers in animal biology, in particular embryonic development and vaccines and diagnostic methods for animal diseases. This book should be of value to molecular geneticists.

The Molecular Basis of Evolution John Wiley & Sons

The single most comprehensive and authoritative textbook on bacterial molecular genetics Snyder & Champness Molecular Genetics of Bacteria is a new edition of a classic text, updated to address the massive advances in the field of bacterial molecular genetics and retitled as homage to the founding authors. In an era experiencing an avalanche of new genetic sequence information, this updated edition presents important experiments and advanced material relevant to current applications of molecular genetics, including conclusions from and applications of genomics; the relationships among recombination, replication, and repair and the importance of organizing sequences in DNA; the mechanisms of regulation of gene expression; the newest advances in bacterial cell biology; and the coordination of cellular processes during the bacterial cell cycle. The topics are integrated throughout with biochemical, genomic, and structural information, allowing readers to gain a deeper understanding of modern bacterial molecular genetics and its relationship to other fields of modern biology. Although the text is centered on the most-studied bacteria, Escherichia coli and Bacillus subtilis, many examples are drawn from other bacteria of experimental, medical, ecological, and biotechnological importance. The book's many useful features include Text boxes to help students make connections to relevant topics related to other organisms, including humans A summary of main points at the end of each chapter Questions for discussion and independent thought A list of suggested readings for background and further investigation in each chapter Fully illustrated with detailed diagrams and photos in full color A glossary of terms highlighted in the text While intended as an undergraduate or beginning graduate textbook, Molecular Genetics of Bacteria is an invaluable reference for anyone working in the fields of microbiology, genetics, biochemistry, bioengineering, medicine, molecular biology, and biotechnology. "This is a marvelous textbook that is completely up-to-date and comprehensive, but not overwhelming. The clear prose and excellent figures make it ideal for use in teaching bacterial molecular genetics." —Caroline Harwood, University of Washington

Molecular Biology of the Cell National Academies Press

Molecular Basis of Aging is a collection of papers that discuss the molecular aspects of aging in the light of molecular biology, biochemical gerontology, and genetics. Each chapter of the book contains a different study about the topic, which includes the effects of aging on DNA synthesis; the amplification of extrachromosomal circular copies and mitochondrial DNA during aging; and the altered actions of hormones and neurotransmitters during aging. The book also encompasses the loss of responsiveness to growth factors in cell senescence; the integration of cellular-molecular and neuroendocrin ...

The Molecular Basis of Human Disease and Approaches to Its Treatment Oxford University Press, USA

This work offers a fascinating insight into a crucial genetic process. Recombination is, quite simply, one of the most important topics in contemporary biology. This book is a totally comprehensive treatment of the subject, summarizing all existing views on the topic and at the same time putting them into context. It provides in-depth and up-to-date analysis of the chapter topics, and has been written by international experts in the field.

The Genetics of Cancer Springer Science & Business Media

It has been recognized for almost 200 years that certain families seem to inherit cancer. It is only in the past decade, however, that molecular genetics and epidemiology have combined to define the role of inheritance in cancer more clearly, and to identify some of the genes involved. The causative genes can be tracked through cancer-prone families via genetic linkage and positional cloning. Several of the genes discovered have subsequently been proved to play critical roles in normal growth and development. There are also implications for the families themselves in terms of genetic testing with its attendant dilemmas, if it is not clear that useful action will result. The chapters in The Genetics of Cancer illustrate what has already been achieved and take a critical look at the future directions of this research and its potential clinical applications.

Human Molecular Biology Springer

Since the first volume was published, there has been significant success in isolating genes responsible for particular cancers as well as a major improvement in our understanding of the molecular events leading to tumors. This book explores possible genetic treatments that can suppress cancer cells that have formed tumors and it presents the details of the isolation and characterization of new human cancer genes that have recently been identified. Molecular Genetics of Cancer, 2E is an essential book for anyone involved in cancer research and the search for a cure.

An Introduction to Human Molecular Genetics McGraw-Hill Companies

This text, concisely sets out the fundamentals required by students in this rapidly growing field. Plant Molecular Genetics is split into four parts: the first deals with the structure and inheritance of plant genomes; the second with the biology of Agrobacterium tumefaciens and its use in plant transformation;

the third with key topics in plant molecular biology, including nitrogen fixation, the effect of light on plant development, flowering, breeding systems and disease resistance. The final section provides an overview of plant biotechnology, including a discussion of its future prospects.

Experiments in Molecular Genetics Benjamin Cummings

Helping undergraduates in the analysis of genetic problems, this work emphasizes solutions, not just answers. The strategy is to provide the student with the essential steps and the reasoning involved in conducting the analysis, and throughout the book, an attempt is made to present a balanced account of genetics. Topics, therefore, center about Mendelian, cytogenetic, molecular, quantitative, and population genetics, with a few more specialized areas. Whenever possible, the student is provided with the appropriate basic statistics necessary to make some the analyses. The book also builds on itself; that is, analytical methods learned in early parts of the book are subsequently revisited and used for later analyses. A deliberate attempt is made to make complex concepts simple, and sometimes to point out that apparently simple concepts are sometimes less so on further investigation. Any student taking a genetics course will find this an invaluable aid to achieving a good understanding of genetic principles and practice.

Molecular Genetics Academic Press

As befits a volume in the Advanced Series in Agricultural Sciences, this book was written with problems of practical agriculture in mind. One of the ways of controlling plant disease is by using resistant cultivars; and from the wide literature of genetics and biochemistry in plant pathology I have emphasized what seems to bear most closely on breeding for disease resistance. This has a double advantage, for it happens all to the good that this emphasis is also an emphasis on primary causes of disease, as distinct from subsequent processes of symptom expression and other secondary effects. The chapters are entirely modern in outlook. The great revolution in biology this century had its high moments in the elucidation of the DNA double helix in 1953 and the deciphering of the genetic code in 1961. This book, so far as I know, is the first in plant pathology to be conceived within the framework of this new biology. Half the book could not have been written 20 years ago, even if there had then been available all the literature that has since accumulated on the genetics and chemistry of plant disease. The new biology is the cement this book uses to bind the literature together. Another feature of this book is an emphasis on thermodynamics.

Snyder and Champness Molecular Genetics of Bacteria Ardent Media

This advanced level textbook offers an in-depth look at molecular biology and biochemistry. The breadth and diversity of bacterial genetics are explored in discussions of microbial systems beyond the much-studied E Coli.

Molecular Genetics of Immunoglobulin Cambridge University Press

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.

The Molecular Basis of Evolution John Wiley & Sons

In 1992 the National Research Council issued DNA Technology in Forensic Science, a book that documented the state of the art in this emerging field. Recently, this volume was brought to worldwide attention in the murder trial of celebrity O. J. Simpson. The Evaluation of Forensic DNA Evidence reports on developments in population genetics and statistics since the original volume was published. The committee comments on statements in the original book that proved controversial or that have been misapplied in the courts. This volume offers recommendations for handling DNA samples, performing calculations, and other aspects of using DNA as a forensic toolâ€"modifying some recommendations presented in the 1992 volume. The update addresses two major areas: Determination of DNA profiles. The committee considers how laboratory errors (particularly false matches) can arise, how errors might be reduced, and how to take into account the fact that the error rate can never be reduced to zero. Interpretation of a finding that the DNA profile of a suspect or victim matches the evidence DNA. The committee addresses controversies in population genetics, exploring the problems that arise from the mixture of groups and subgroups in the American population and how this substructure can be accounted for in calculating frequencies. This volume examines statistical issues in interpreting frequencies as probabilities, including adjustments when a suspect is found through a database search. The committee includes a detailed discussion of what its recommendations would mean in the courtroom, with numerous case citations. By resolving several remaining issues in the evaluation of this increasingly important area of forensic evidence, this technical update will be important to forensic scientists and population geneticistsâ€"and helpful to attorneys, judges, and others who need to understand DNA and the law. Anyone working in laboratories and in the courts or anyone studying this issue should own this book.