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Biology Holt Rinehart & Winston

Advances in Botanical Research provides an up-to-date source of information for students, lecturing staff and research workers in plant sciences. The topics discussed in Volume 12 span a wide area, ranging from the biochemical mechanisms involved in the light modulation of enzyme activity, to the phylogenetic significance of the dinoflagellate chromosome. This series specializes in articles evaluating particular

areas of advanced botany and as such continues to be of interest to botanists in a variety of research areas. From the Preface: The changes in enzyme activity in green plants caused by the transition from light to dark are now regarded as important regulatory processes directing metabolism towards synthesis of sugars and storage compounds in the light, and their breakdown in the dark. Light affects chloroplast enzyme activity in a number of diverse ways, through alteration of stromal pH, ion and metabolite levels. However, there are also changes in activity in some enzymes that involve post-translation (probably covalent) modification of the enzyme protein, and these are generally referred to as 'light modulation'. In her article, Anderson reviews such plant enzyme systems, the biochemical mechanisms involved (probably by reduction of a disulphide bond), their potential molecular basis and the function of modulation in photosynthetic carbon metabolism. One of the most important developments in plant molecular genetics is the rapid improvement of our understanding of the nature and mechanisms

of mutation induced by transposable elements. It is interesting to reflect that the origins of this lie in our fascination for variegated plants as horticultural curiosities! Because of our increasing interest in transposable elements for exploring the genetic origins of variation, or as systems for molecular biology and genetic engineering, the review of *Plant Transposable Elements* by the group at the Max-Planck Institute, K"ln (Nevers, Shepherd and Saedler) is particularly welcome. How transposons will be used to isolate genes known only for their phenotypic effects will be seen in the future. The unicellular dinoflagellates are major components of marine and freshwater ecosystems. Apart from their general ecological importance, there are a number of reasons why they are of interest to biologists. In this volume we consider two such aspects. The article by Sigeo discusses the very high level of DNA possessed by these organisms, the particular configuration of their chromatin and their nuclear organisation. These are of phylogenetic significance, and to summarise the position as presented in Sigeo's article, it now seems that dinoflagellates are to be regarded as true eukaryotes with some prokaryote features, and that probably they are 'primitive' rather than degenerate forms of more advanced ancestors. Algae that can produce toxins effective against animals are found in three of the eight algal divisions, including the dinoflagellates. Carmichael reviews various aspects of biology and chemistry of these chemically diverse toxins, some of which can exert potent effects on humans, and considers their potential natural role. Few ideas of such ecological roles appear to have been subject to critical experimentation, and this article should provide a framework for such future work.

Biology Springer Science & Business Media
Interest in this unique plant has grown dramatically over the last 10 years, and this

book provides an overview and recent findings concerning cell biology, biochemistry, development, morphology, phylogeny, paleobotany, as well as possible applications in chemistry and medicine. It also covers environmental aspects and the relationship between *G. biloba* and humans. Thus it will be of wide interest to botanists, horticulturists and scientists working on this attractive and useful plant, and aims to both stimulate further study and contribute to the development of new fields in Ginkgo research.

Reproductomics Oxford University Press

Chromosome biology has been brought to a golden age by phenomenal advances in molecular genetics and techniques. This is true in the plant arena, and it is becoming increasingly true in animal studies, where chromosomes are more difficult to work with. With advanced knowledge of transformation, scientists can tell exactly where a new element enters a chromosome. Conversely, molecular biologists can make large mistakes if they do not understand the behavior of chromosomes. Written by internationally recognized experts in the field, this book is the most authoritative work on the subject to date. Students of genetics, crop science and plant breeding, entomology, animal science, and related fields will benefit from this comprehensive and practical textbook.

Ginkgo Biloba A Global Treasure Taylor & Francis US
One Hundred Years of Chromosome Research: What Remains to be Learned, offers the reader a critical analysis of the observations and experiments that shaped

the last 100 years of chromosome research, as well as the ideas which prevailed during this period. Emphasis is placed on what remains to be learned, particularly in light of reality of the sequencing of DNA which leaves the previous era of chromosome research as a prehistoric event. It is at this turning point, that well formulated questions can be asked about many of the chromosome's properties, which remain to be unveiled. The author, Lima-de-Faria is Professor Emeritus of Molecular Cytogenetics at Lund University, Sweden, previously Head of the Institute of Molecular Cytogenetics, Lund University. John Wiley & Sons

Encyclopedia of Reproduction, Second Edition comprehensively reviews biology and abnormalities, also covering the most common diseases in humans, such as prostate and breast cancer, as well as normal developmental biology, including embryogenesis, gestation, birth and puberty. Each article provides a comprehensive overview of the selected topic to inform a broad spectrum of readers, from advanced undergraduate students, to research professionals. Chapters also explore the latest advances in cloning, stem cells, endocrinology, clinical reproductive medicine and genomics. As reproductive health is a fundamental component of an individual's overall health status and a central determinant of quality of life, this book provides the most extensive and authoritative reference within the field. Provides a one-stop shop for information on reproduction that is not available elsewhere Includes extensive coverage of the full range of topics, from basic, to clinical considerations, including evolutionary advances in molecular, cellular, developmental and clinical sciences Includes multimedia and interactive teaching tools,

such as downloadable PowerPoint slides, video content and interactive elements, such as the Virtual Microscope Holt Biology: Meiosis and sexual reproduction Holt McDougal Cell Biology of Physarum and Didymium, Volume I: Organisms, Nucleus, and Cell Cycle presents important experimental research on Physarum and Didymium for developmental and cellular studies. This book is organized into four parts, encompassing 12 chapters that summarize the taxonomy, biological activities, genetics, and cell cycle of these organisms. The opening part covers two chapters on morphology, taxonomy, phylogeny, biosystematics, and evolutionary implications of Physarum and Didymium species. This is followed by discussions on the biological aspects of these species. These include periodic events of the mitotic cycle in Physarum polycephalum. The general characteristics of chemoreception at the membrane level using plasmodium as a model organism, as well as the structure and motility of plasmodium, are also included. The third part of the book focuses on genetic analysis of plasmodium development and the discovery of techniques for the genetic manipulation of P. polycephalum. Progress in the genetic analysis of other processes is summarized. The concluding part examines the morphological evolution of the nucleus during the mitotic cycle together with the results from ultracytochemical and radioautographic studies. It also includes a discussion on DNA organization and replication in P. polycephalum. Finally, the synthesis and degradation of RNA in Physarum and the relationship of these biochemical processes to mitotic cycle and differentiation are tackled in the concluding chapter. The book will serve as a frequent, single reference source to brief cell biologists on the primary research on Physarum and Didymium. It will be a good source for graduate students in cell biology, and perhaps in other graduate courses.

Evolution Holt Rinehart & Winston

The cell; Multicellular plants; Multicellular animals, especially man; Heredity and evolution.

Modern Life Science Elsevier

Biology for AP® courses covers the scope and sequence requirements of a typical two-semester Advanced Placement® biology course. The text

provides comprehensive coverage of foundational research and core biology concepts through an evolutionary lens. Biology for AP® Courses was designed to meet and exceed the requirements of the College Board's AP® Biology framework while allowing significant flexibility for instructors. Each section of the book includes an introduction based on the AP® curriculum and includes rich features that engage students in scientific practice and AP® test preparation; it also highlights careers and research opportunities in biological sciences.

Modern Biology Academic 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.

Holt Biology Springer Science & Business Media

This title includes the following features: Great breadth of coverage in one volume: covers all aspects of cancer, in a concise and affordable format; Provides a comprehensive introduction to the initiation,

development, and treatment of cancer; Chapter are written by experts in each field, giving a state-of-the-art summary of each topic; Extensive references provide links to all the relevant literature, facilitating further study

Mitosis/Cytokinesis New Science Press

Mitosis/Cytokinesis provides a comprehensive discussion of the various aspects of mitosis and cytokinesis, as studied from different points of view by various authors. The book summarizes work at different levels of organization, including phenomenological, molecular, genetic, and structural levels. The book is divided into three sections that cover the premeiotic and premitotic events; mitotic mechanisms and approaches to the study of mitosis; and mechanisms of cytokinesis. The authors used a uniform style in presenting the concepts by including an overview of the field, a main theme, and a conclusion so that a broad range of biologists could understand the concepts. This volume also explores the potential developments in the study of mitosis and cytokinesis, providing a background and perspective into research on mitosis and cytokinesis that will be invaluable to scientists and advanced students in cell biology. The book is an excellent reference for students, lecturers, and research professionals in cell biology, molecular biology, developmental biology, genetics, biochemistry, and physiology.

Chromosomes Academic Press

This book provides an overview of the stages of the eukaryotic cell cycle, concentrating specifically on cell division for development and maintenance of the human body. It focusses especially on regulatory mechanisms and in some instances on the consequences of malfunction.

Cell Biology A Comprehensive Treatise V3 Holt McDougal

Recent advances in genomic and omics analysis have triggered a revolution affecting nearly every field of medicine, including reproductive

medicine, obstetrics, gynecology, andrology, and infertility treatment.

Reproductomics: The – Omics Revolution and Its Impact on Human Reproductive Medicine demonstrates how various omics technologies are already aiding fertility specialists and clinicians in characterizing patients, counseling couples towards pregnancy success, informing embryo selection, and supporting many other positive outcomes. A diverse range of chapters from international experts examine the complex relationship between genomics, transcriptomics, proteomics, and metabolomics and their role in human reproduction, identifying molecular factors of clinical significance. With this book Editors Jaime Gosálvez and José A. Horcajadas have provided researchers and clinicians with a strong foundation for a new era of personalized reproductive medicine.

Thoroughly discusses how genomics and other omics approaches aid clinicians in various areas of reproductive medicine Identifies specific genomic and molecular factors of translational value in treating infertility and analyzing patient data Features chapter contributions by leading international experts

Cells and Organelles Academic Press

Perfect for a single term on Molecular Biology and more accessible to beginning students in the field than its encyclopedic counterparts, **Fundamental Molecular Biology** provides a distillation of the essential concepts of molecular biology, and is supported by current examples, experimental evidence, an outstanding art program, multimedia support and a solid pedagogical framework. The text has been praised both for its balanced and solid coverage of traditional topics, and for its broad coverage of RNA structure and function, epigenetics and medical molecular biology.

Concepts of Biology Elsevier

A synthesis of the diverse facts of modern cytology & cell biology.

Advances in Botanical Research Elsevier

V. 1. Organisms, nucleus, and cell cycle -- v. 2. Differentiation, metabolism, and methodology.

Biology for AP® Courses Springer Science & Business Media

The Cell Cycle: Principles of Control provides an engaging insight into the process of cell division, bringing to the student a much-needed synthesis of a subject entering a period of unprecedented growth as an understanding of the molecular mechanisms underlying cell division are revealed.

Holt Biology Holt Rinehart & Winston

Cell Biology, A Comprehensive Treatise, Volume 3: Gene Expression: The Production of RNA 's mainly discusses the molecular and cytological bases of gene expression. The coverage begins with the concepts of organization of DNA and gene sequences in chromosomes, as an introduction to a more detailed coverage of gene expression. The book opens with a general discussion on the organization of DNA sequences in chromosomes. This chapter includes different methods of analyzing DNA sequences. As the book progresses, it looks upon the details on gene reiteration and amplification up to the transcription of prokaryotes and eukaryotes. It includes the ways of regulating transcription. The following chapters deal mostly with the structure and activity of genes up to the different virus strains in both RNA and DNA. The cytoplasmic and environmental impact on gene expression is also discussed. Chapter 8 generally tackles the DNA conformation and template function. The succeeding chapters focus on the transfer and ribosomal RNA as a result of maturation events; the processing of hnRNA and its relation to mRNA; and recombinant DNA procedures. The book closes with the directory of the different classes of cellular RNAs. This book will be helpful to many graduate students, teachers, scientists, and researchers in need of information regarding cell biology.

Cell Structure and Function Wiley Global Education

A classroom textbook covers such biology topics as ecology, cells, heredity, evolution, microbes, plants, animals, and humans.

