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Gene Drives on the Horizon
Morgan Kaufmann
Genetically engineered (GE) crops were first introduced commercially in the 1990s. After two decades of production, some groups and individuals remain critical of the technology based on their concerns about possible adverse effects on human health, the environment, and ethical considerations. At the same time, others are concerned that the technology is not reaching its potential to improve human health and the environment because of stringent regulations and reduced public funding to develop products offering more benefits to society. While the debate about these and other questions related to the genetic engineering techniques of the first 20 years goes on, emerging genetic-engineering technologies are adding new complexities to the conversation. Genetically Engineered Crops builds on previous related Academies reports published between 1987 and 2010 by undertaking a retrospective examination of the purported positive and adverse effects of GE crops and to anticipate what emerging genetic-engineering technologies hold for the future. This report indicates where there are uncertainties about the economic, agronomic, health, safety, or other impacts of GE crops and food, and makes recommendations to fill gaps in safety assessments, increase regulatory clarity, and improve

innovations in and access to GE technology.

Cr 9 DNA Holt Science & Technology

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.

Holt Biology: Meiosis and sexual reproduction Holt McDougal

Watson and Crick are synonymous with DNA, the "instructions for life." But how did these scientists figure out something as elusive and complicated as the structure of DNA? Readers will learn about the different backgrounds of these two gifted scientists and what ultimately led them to each other. Their friendship, shared interests, and common obsessions held them together during the frenzied race to unlock the mysteries of DNA in the mid-twentieth century. Along with explanations about how DNA works, the repercussions of the dynamic duo's eventual discovery will especially fascinate young scientists.

Essentials of Biology Holt Rinehart & Winston

Viruses encapsulates for the lay reader the enormous scientific and medical contributions that have come from the field of virology. Dr. Arnold Levine presents the story of the scientists behind our current understanding of these infective agents and explains how that knowledge has helped us comprehend life at both the molecular and the human level. Many intriguing facets of viral behavior are explored, as Dr. Levine provides a clear account of their natural history, the mechanisms by which they spread and survive, and the toll they exact on their animal, plant, and bacterial hosts. Dr. Levine celebrates the great successes that have come from viral studies--the development of a wide range of vaccines, the eradication of smallpox, and the insights into the origins of cancer. He also examines the challeges we still face, with a series of interconnected chapters on the specific viruses behind some of our most urgent public health problems, including the viruses that cause AIDS, influenza, herpes, and hepatitis. A concluding chapter on the origin and evolution of viruses touches on some of the most provocative issues in molecular biology today. Viral infections continue to be an immediate health concern of imposing proportions. Viruses is written for the general reader eager to know how we study and confront these diseases and where today's research may lead.

Chapter Resource 10 How Proteins/Made Biology Holt Rinehart & Winston

T-box Genes in Development and Disease looks at the genes encoding the T-box family of transcription factors function as key regulators of many important decision processes during embryonic and tissue development. The importance of these genes is further underlined by the fact that most members of this gene family have been conserved during evolution from worms to humans. This book brings together the current information on conserved aspects with the evolutionary innovations of the functions of these genes during developmental regulation in various animal species and then discusses their important roles in human disease. Brings together current knowledge from a wide variety of animal species and humans Presents commentary from authoritative experts, and

includes many prominent scientists and their research Illuminates the connections between developmental biology, evolution, and human disease Allows researchers and newcomers to this research area to gain a thorough picture of the current knowledge

Cell Biology of Physarum and Didymium V1 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.

Macmillan

Describes the structural and functional features of the various types of cell from which the human body is formed, focusing on normal cellular structure and function and giving students and trainees a firm grounding in the appearance and behavior of healthy cells and tissues on which can be built a robust understanding of cellular pathology.

Chapter Resource 11 Geme Technology Biology Oxford University Press

Biology, the subject of this textbook, ask the question 'What is life?'

DNA and Chromosomes Elsevier

Research on gene drive systems is rapidly advancing. Many proposed applications of gene drive research aim to solve environmental and public health challenges, including the reduction of poverty and the burden of vector-borne diseases, such as malaria and dengue, which disproportionately impact low and middle income countries. However, due to their intrinsic qualities of rapid spread and irreversibility, gene drive systems raise many questions with respect to their safety relative to public and environmental health. Because gene drive systems are designed to alter the environments we share in ways that will be hard to anticipate and impossible to completely roll back,

questions about the ethics surrounding use of this research are complex and will require very careful exploration. Gene Drives on the Horizon outlines the state of knowledge relative to the science, ethics, public engagement, and risk assessment as they pertain to research directions of gene drive systems and governance of the research process. This report offers principles for responsible practices of gene drive research and related applications for use by investigators, their institutions, the research funders, and regulators.

Current Topics in Developmental Biology Henry Holt and Company

Chronicles the race to map the human genome, noting the impact of skeptics in the 1970s and 1980s, the breakthroughs of the 1990s, and the political maelstrom that ensued in the face of corporate involvement and the fight for credit. 15,000 first printing.

Biology Wiley Global Education

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

Evolution Academic Press

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2020 Planner Houghton Mifflin Harcourt School

Provides an analysis of the nature vs. nuture debate, arguing for an end to the "either/or" nature of the discussions in favor of a recognition that environmental and genetic factors interact throughout life to form human traits.

Emerging Trends in Computational Biology, Bioinformatics, and Systems Biology Gareth Stevens Publishing LLLP

"With the new 13th edition, Raven and Johnson's Biology continues the momentum built over the last four editions. We continue to provide an unmatched comprehensive text fully integrated with a continually evolving, state-of-the-art digital environment. We have used this revision to recommit ourselves to our roots as the majors biology text that best integrates evolution throughout. We have added material emphasizing the relevance of evolution throughout the ecology section, not only in all four ecology chapters, but also in the chapters on behavior and conservation biology. In the animal form and function section we have done extensive revision to modernize, and to emphasize evolution in the context of physiology. Important contributions to this effort came from Dr. Charles Welsh (Duquesne University), who provided his knowledge and experience to this important section. We have also moved the examples and insights from the chapter devoted to the evolution of development to place them into the appropriate context throughout the book. This emphasizes the importance of evolution and development by continually providing examples rather than gathering them together in a single chapter"--

Holt Biology National Academies Press

Reproductive biology is more than the development of techniques for helping with too little or too much breeding. While some of the relevant techniques are useful for individual species, technical developments have to be backed up by thorough biological understanding of the

background behind the problems. This book is therefore threefold; (1) it provides a snapshot of the state of the art in terms of species-specific reproductive technologies, whether for individual animals or whole taxonomic groups; (2) it sets the reproductive problems in context and emphasizes the links between animal-based problems and the wider world, e.g. reproductive fitness and (3) it looks forward and presents realistic assessments of how effective some of the more recently developed techniques in reproductive technology might be at combating extinctions. This is a wide-ranging book that will be relevant to anyone involved in reproductive biology or in species conservation and provides provide them some useful perspectives about the real utility of current and emerging technologies. It has contributions from experts in reproduction and related fields.

Biology of Developing Systems Holt McDougal

This 2020 planner has plenty of room for planning your busy schedules. Each weekly spread includes space to write your daily plans and appointments, as well as keep track of all days clearly with the weekly view. Also space for notes for each week for any reminders, to-do lists or details you want to note down. Features: 8.5"x11" dimensions makes each page large enough to plan your days and weeks, but still convenient to carry with you in your tote bag, briefcase or backpack! The first page has space to write your name or the name of the loved one who your are buying this wonderful planner for! 2 Pages Per Week Spread - easy to use with plenty of room to note any appointments and your daily schedule. Includes yearly calendars at the back of the planner as well as space for notes for you to easily reference! Includes several pages at the back of the book for any general notes that you may have. Paperback with Matte Finish ORDER TODAY FOR YOU OR A LOVED ONE!!

Concepts of Biology Holt McDougal

Exercise Genomics encompasses the translation of exercise genomics into preventive medicine by presenting a broad overview of the rapidly expanding research examining the role of genetics and genomics within the areas of exercise performance and health-related physical activity. Leading researchers from a number of the key exercise genomics research groups around the world have been brought together to provide updates and analysis on the key discoveries of the past decade, as well as lend insights and opinion about the future of exercise genomics, especially within the contexts of translational and personalized medicine. Clinicians, researchers and health/fitness professionals will gain up-to-date background on the key findings and critical unanswered questions across several areas of exercise genomics, including performance, body composition, metabolism, and cardiovascular disease risk factors. Importantly, basic information on genomics, research methods, and statistics are presented within the context of exercise science to provide students and professionals with the foundation from which to fully engage with the more detailed chapters covering specific traits. Exercise Genomics will be of great value to health/fitness professionals and graduate students in kinesiology, public health and sports medicine desiring to learn more about the translation of exercise genomics into preventive medicine.

Chapter Resource 9 Dna: Genetic Material Biology Springer Science & Business Media

The Raven & Johnson's Biology author team is committed to continually improving the text, keeping the student and learning foremost. The integrated pedagogical features expand the

students' learning process and enhance their learning experience. This latest edition of the text maintains the clear, accessible, and engaging writing style of past editions with the solid framework of pedagogy that highlights an emphasis on evolution and scientific inquiry that have made this a leading textbook for students majoring in biology. This emphasis on the organizing power of evolution is combined with an integration of the importance of cellular, molecular biology and genomics to offer our readers a text that is student friendly and current.

Biology Holt McDougal

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.

Fundamental Molecular Biology, 2nd Edition National Academies Press

"Based on the work of Peter H. Raven, President Emeritus, Missouri Botanical Garden; George Engelmann, Professor of Botany Emeritus, Washington University, George B. Johnson, Professor Emeritus of Biology, Washington University."