This Is Biology The Science Of Living World Ernst W Mayr

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Biology Everywhere Cambridge University Press

Handbook of the Biology of Aging, Eighth Edition, provides readers with an update on the rapid progress in the research of aging. It is a comprehensive synthesis and review of the latest and most important advances and themes in modern biogerontology, and focuses on the trend of ‘ big data ’ approaches in the biological sciences, presenting new strategies to analyze, interpret, and understand the enormous amounts of information being generated through DNA sequencing, transcriptomic, proteomic, and the metabolomics methodologies applied to aging related problems. The book includes discussions on longevity pathways and interventions that modulate aging, innovative new tools that facilitate systems-level approaches to aging research, the mTOR pathway and its importance in age-related phenotypes, new strategies to pharmacologically modulate the mTOR pathway to delay aging, the importance of sirtuins and the hypoxic response in aging, and how various pathways interact within the context of aging as a complex genetic trait, amongst others. Covers the key areas in biological gerontology research in one volume, with an 80% update from the previous edition Edited by Matt Kaeberlein and George Martin, highly respected voices and researchers within the biology of aging discipline Assists basic researchers in keeping abreast of research and clinical findings outside their subdiscipline Presents information that will help medical, behavioral, and social gerontologists in understanding what basic scientists and clinicians are discovering New chapters on genetics, evolutionary biology, bone aging, and epigenetic control Provides a close examination of the diverse research being conducted today in the study of the biology of aging, detailing recent breakthroughs and potential new directions

The Biology Book Benjamin-Cummings Publishing

Company

This best-selling book is now available in paperback! Take a peek inside the mysterious world of living things? Learn alongside inspirational women biologists whose innovations changed the world. Discover the power of curiosity and resilience through a conversation between a spunky young protagonist, asking questions about the world around her, and a scientifically astute narrator, whose answers are both accurate and understandable to young minds. Women in Biology is the perfect place for children to start their own journeys of discovery and wonder.

John Wiley & Sons

This important and overdue book examines illuminated manuscripts and other book arts of the Global Middle Ages. Illuminated manuscripts and illustrated or decorated books—like today ' s museums—preserve a rich array of information about how premodern peoples conceived of and perceived the world, its many cultures, and everyone ' s place in it. Often a Eurocentric field of study, manuscripts are prisms through which we can glimpse the interconnected global history of humanity. Toward a Global Middle Ages is the first publication to examine decorated books produced across the globe during the period traditionally known as medieval. Through essays and case studies, the volume ' s multidisciplinary contributors expand the historiography, chronology, and geography of manuscript studies to embrace a diversity of objects, individuals, narratives, and materials from Africa, Asia, Australasia, and the Americas—an approach that both engages with and contributes to the emerging field of scholarly inquiry known as the Global Middle Ages. Featuring more than 160 color illustrations, this wide-ranging and provocative collection is intended for all who are interested in engaging in a dialogue about how books and other textual objects contributed to world-making strategies from about 400 to 1600.

Toward a New Philosophy of Biology Macmillan

Provides a philosophical analysis of such biological concepts as natural selection, adaptation, speciation, and evolution

A New Biology for the 21st Century Benjamin-Cummings Publishing Company

Biology of Life: Biochemistry, Physiology and Philosophy provides foundational coverage of the field of biochemistry for a different angle to the traditional biochemistry text by focusing on human biochemistry and incorporating related elements of evolution to help further contextualize this dynamic space. This unique approach includes sections on early human development, what constitutes human life, and what makes it special. Additional coverage on the differences between the biochemistry of prokaryotes and eukaryotes is also included. The center of life in prokaryotes is considered to be photosynthesis and sugar generation, while the center of life in eukaryotes is sugar use and oxidative phosphorylation. This unique reference will inform specialized biochemistry courses and researchers in their understanding of the role biochemistry has in human life. Contextualizes the field of biochemistry and its role in human life Includes dedicated sections on human reproduction and human brain development Provides extensive coverage on biochemical energetics, oxidative phosphorylation, photosynthesis, and carbon monoxide-acetate pathways

Levels of Organization in the Biological Sciences Academic Press

How should the concept of evidence be understood? And how does the concept of evidence apply to the controversy about creationism as well as to work in evolutionary biology about natural selection and common ancestry? In this rich and wide-ranging book, Elliott Sober

investigates general questions about probability and evidence and shows how the answers he develops to those questions apply to the specifics of evolutionary biology. Drawing on a set of fascinating examples, he analyzes whether claims about intelligent design are untestable; whether they are discredited by the fact that many adaptations are imperfect; how evidence bears on whether present species trace back to common ancestors; how hypotheses about natural selection can be tested, and many other issues. His book will interest all readers who want to understand philosophical questions about evidence and evolution, as they arise both in Darwin's work and in contemporary biological research.

Evidence and Evolution Harvard University Press

For introductory courses for biology majors. Uniquely engages biology students in active learning, scientific thinking, and skill development. Scott Freeman's Biological Science is beloved for its Socratic narrative style, its emphasis on experimental evidence, and its dedication to active learning. Science education research indicates that true mastery of content requires a move away from memorization towards active engagement with the material in a focused, personal way. Biological Science is designed to equip students with strategies to assess their level of understanding and identify the types of cognitive skills that need improvement. With the Sixth Edition, content has been streamlined with an emphasis on core concepts and core competencies from the Vision and Change in Undergraduate Biology Education report. The text's unique BioSkills section is now placed after Chapter 1 to help students develop key skills needed to become a scientist, new "Making Models" boxes guide learners in interpreting and creating models, and new "Put It all Together" case studies conclude each chapter and help students see connections between chapter content and current, real-world research questions. New, engaging content includes updated coverage of global climate change, advances in genomic editing, and recent insights into the evolution of land plants. MasteringBiology™ not included. Students, if MasteringBiology is a recommended/mandatory component of the course, please ask your instructor for the correct ISBN and course ID. MasteringBiology should only be purchased when required by an instructor. Instructors, contact your Pearson representative for more information. MasteringBiology is an online homework, tutorial, and assessment product designed to personalize learning and improve results. With a wide range of interactive, engaging, and assignable activities, students are encouraged to actively learn and retain tough course concepts.

Biological Science This Is Biology

This book, a collection of essays written by the most eminent evolutionary biologist of the twentieth century, explores biology as an autonomous science, offers insights on the history of evolutionary thought, critiques the contributions of philosophy to the science of biology, and comments on several of the major ongoing issues in evolutionary theory. Notably, Mayr explains that Darwin's theory of evolution is actually five separate theories, each with its own history, trajectory and impact. Natural selection is a separate idea from common descent, and from geographic speciation, and so on. A number of the perennial Darwinian controversies may well have been caused by the confounding of the five separate theories into a single composite. Those interested in evolutionary theory, or the philosophy and history of science will find useful ideas in this book, which should appeal to virtually anyone with a broad

curiosity about biology.

What Makes Biology Unique? Anchor

Now more than ever, biology has the potential to contribute practical solutions to many of the major challenges confronting the United States and the world. A New Biology for the 21st Century recommends that a "New Biology" approach--one that depends on greater integration within biology, and closer collaboration with physical, computational, and earth scientists, mathematicians and engineers--be used to find solutions to four key societal needs: sustainable food production, ecosystem restoration, optimized biofuel production, and improvement in human health. The approach calls for a coordinated effort to leverage resources across the federal, private, and academic sectors to help meet challenges and improve the return on life science research in general.

Citizen Science Cambridge University Press

Here is the essential guide to biology, an authoritative reference book and timeline that examines how we have uncovered the secrets of life--the most complex process in the Universe. From the workings of molecules to the way entire oceans or continents of lifeforms interact, biology seeks to understand how it is that something can be alive, how it fends off death and how it leaves more life in its wake. We follow the journey through the history of life science to find out why the dolphin got its name (it is the 'womb fish'), how a seven-foot strand of DNA is able to build your body, and what gives a lobster its blue blood. The great names, such as Darwin and Linnaeus, are joined by lesser known discoverers, such as Karl von Frisch who discovered that bees dance, and Jan Baptist van Helmont who found a plant uses air and water to grow. Biology today is still very much a live science, finding a purpose in robot design and helping us to understand non-living complex systems like the Internet. Biology has changed the way we understand ourselves. What will it tell us next? - Contains 100 chronological articles that tell the story of biology from the dawn of history to the present day - Authoritative text, exciting imagery and helpful diagrams accompany each of the steps along the way - Biographies of great life scientists and a chart of the tree of life - A simple guide to biology draws together current understanding to set out the basics of the science - The Imponderables looks at what questions biology still needs to answer. Also contains a 24-page removable foldout concertina neatly housed at the back of the book. This fold-out concertina includes a 12-page Timeline History of Biology and 12 full pages of amazing electron micrographs called Our Hidden World.

Biology of Life University of Chicago Press

For nearly forty years, using recombinant DNA tools, researchers, and then businesses, have genetically engineered organisms by transferring naturally occurring genes from one organism into another. Doing so modifies the genetic code of living cells, imparting new traits and achieving desired results; this is done in the production of proteins, pharmaceuticals, and seeds. Synthetic biology, argues Solomon, could free scientists from the need to find natural genes to make such desired modifications. Synthetic biology permits more complex and sophisticated bioengineering than what can be achieved through previous genetic modification techniques. Drawing on non-biological scientific and engineering disciplines, including

information technology and nanotechnology, synthetic biology strives to rearrange an organism's genes on a far wider scale by rewriting its genetic code, the chemical instructions need to design, assemble, and operate a species. By allowing the writing of artificial genetic codes, synthetic biology can transform existing industries and spawn new ones, creating new products as well as radically reshaping existing items. Arguing for self-regulation by the scientific and business communities, Lewis D. Solomon recommends a policy framework that would guard against governmental overregulation, which could create a barrier to innovation. Although synthetic biotechnology holds considerable social and economic potential, absent a nurturing regulatory climate, it may prove difficult to translate research discoveries into commercially viable applications.

Handbook of the Biology of Aging Harvard University Press

Scientific philosophers examine the nature and significance of levels of organization, a core structural principle in the biological sciences. This volume examines the idea of levels of organization as a distinct object of investigation, considering its merits as a core organizational principle for the scientific image of the natural world. It approaches levels of organization--roughly, the idea that the natural world is segregated into part-whole relationships of increasing spatiotemporal scale and complexity--in terms of its roles in scientific reasoning as a dynamic, open-ended idea capable of performing multiple overlapping functions in distinct empirical settings. The contributors--scientific philosophers with longstanding ties to the biological sciences--discuss topics including the philosophical and scientific contexts for an inquiry into levels; whether the concept can actually deliver on its organizational promises; the role of levels in the development and evolution of complex systems; conditional independence and downward causation; and the extension of the concept into the sociocultural realm. Taken together, the contributions embrace the diverse usages of the term as aspects of the big picture of levels of organization. Contributors Jan Baedke, Robert W. Batterman, Daniel S. Brooks, James DiFrisco, Markus I. Eronen, Carl Gillett, Sara Green, James Griesemer, Alan C. Love, Angela Potochnik, Thomas Reydon, Ilya Tëmkin, Jon Umerez, William C. Wimsatt, James Woodward

The Handbook of Communication Science and Biology NSTA Press

Written as a textbook with an online laboratory manual for students and adopting faculties, this work is intended for non-science majors / liberal studies science courses and will cover a range of scientific principles of food, cooking and the science of taste and smell. Chapters include: The Science of Food and Nutrition of Macromolecules; Science of Taste and Smell; Milk, Cream, and Ice Cream, Metabolism and Fermentation; Cheese, Yogurt, and Sour Cream; Browning; Fruits and Vegetables; Meat, Fish, and Eggs; Dough, Cakes, and Pastry; Chilies, Herbs, and Spices; Beer and Wine; and Chocolate, Candy and Other Treats. Each chapters begins with biological, chemical, and /or physical principles underlying food topics, and a discussion of what is happening at the molecular level. This unique approach is unique should be attractive to chemistry, biology or biochemistry departments looking for a new way to bring students into their classroom. There are no pre-requisites for the course and the work is appropriate for all college levels and majors.

Biological Science, Global Edition Penguin

Supports and motivates you as you learn to think like a biologist. Building upon Scott Freeman's unique narrative style that incorporates the Socratic approach and draws you into thinking like a biologist, the Fourth Edition has been carefully refined to motivate and

support a broader range of learners as they are introduced to new concepts and encouraged to develop and practice new skills. Each page of the book is designed in the spirit of active learning and instructional reinforcement, equipping novice learners with tools that help them advance in the course--from recognizing essential information in highlighted sections to demonstrating and applying their understanding of concepts in practice exercises that gradually build in difficulty.

Biology Experiments for Children IOS Press

The Handbook of Communication Science and Biology charts the state of the art in the field, describing relevant areas of communication studies where a biological approach has been successfully applied. The book synthesizes theoretical and empirical development in this area thus far and proposes a roadmap for future research. As the biological approach to understanding communication has grown, one challenge has been the separate evolution of research focused on media use and effects and research focused on interpersonal and organizational communication, often with little intellectual conversation between the two areas. The Handbook of Communication Science and Biology is the only book to bridge the gap between media studies and human communication, spurring new work in both areas of focus. With contributions from the field's foremost scholars around the globe, this unique book serves as a seminal resource for the training of the current and next generation of communication scientists, and will be of particular interest to media and psychology scholars as well.

Toward a Global Middle Ages Cambridge University Press

The editors of this book have a straightforward goal: to inspire you to engage your students through public collaboration in scientific research--also known as citizen science. The book is specifically designed to get you comfortable using citizen science to support independent inquiry through which your students can learn both content and process skills. Citizen Science offers you: Real-life case studies of classes that engaged in citizen science and learned authentic scientific processes and the habits of mind associated with scientific reasoning. Fifteen stimulating lessons you can use to build data collection and analysis into your teaching. Plenty of flexibility. You can use the lessons with or without access to field or lab facilities; whether or not your students can collect and submit data of their own; and inside your classroom or outside through fieldwork in schoolyards, parks, or other natural areas in urban or rural settings. You don't need an advanced degree in science to guide your students in productive participation in one of a growing variety of citizen science projects. As the editors note, "Such involvement can scaffold teachers' entry into facilitating student investigation while connecting students with relevant, meaningful, and real experiences with science."

Instrumental Biology, Or The Disunity of Science Courier Corporation

Your child needs an educational book that supports his/her quest for academic excellence but with an irresistible appeal that makes it ideal for home study. This science book discusses the cell theory, which dictates that cells are the basic unit of life. Explore this theory further by going over the pages of this biology book. Get a copy today.

This Is Biology: The Science Of The Living World Routledge

Learn about the most important discoveries and theories of this science in The Biology Book. Part of the fascinating Big Ideas series,

this book tackles tricky topics and themes in a simple and easy to follow format. Learn about Biology in this overview guide to the subject, great for novices looking to find out more and experts wishing to refresh their knowledge alike! The Biology Book brings a fresh and vibrant take on the topic through eye-catching graphics and diagrams to immerse yourself in. This captivating book will broaden your understanding of Biology, with: - More than 95 ideas and events key to the development of biology and the life sciences - Packed with facts, charts, timelines and graphs to help explain core concepts - A visual approach to big subjects with striking illustrations and graphics throughout - Easy to follow text makes topics accessible for people at any level of understanding The Biology Book is a captivating introduction to understanding the living world and explaining how its organisms work and interact - whether microbes, mushrooms, or mammals. Here you'll discover key areas of the life sciences, including ecology, zoology, and biotechnology, through exciting text and bold graphics. Your Biology Questions, Simply Explained This book will outline big biological ideas, like the mysteries of DNA and genetic inheritance; and how we learned to develop vaccines that control diseases. If you thought it was difficult to learn about the living world, The Biology Book presents key information in a clear layout. Here you'll learn about cloning, neuroscience, human evolution, and gene editing, and be introduced to the scientists who shaped these subjects, such as Carl Linnaeus, Jean-Baptiste Lamarck, Charles Darwin, and Gregor Mendel. The Big Ideas Series With millions of copies sold worldwide, The Biology Book is part of the award-winning Big Ideas series from DK. The series uses striking graphics along with engaging writing, making big topics easy to understand.

Understanding Scientific Theories of Origins Routledge

Directions for simple experiments which require only a microscope and household objects to prove some basic scientific facts about plants, animals, and human beings.

The Cell Theory | Biology's Core Principle | Biology Book | Science Grade 7 | Children's Biology Books Harvard University Press

"Cell biology is becoming an increasingly quantitative field, as technical advances mean researchers now routinely capture vast amounts of data. This handbook is an essential guide to the computational approaches, image processing and analysis techniques, and basic programming skills that are now part of the skill set of anyone working in the field"--