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Plants and Animals John Wiley & Sons

In the United States, some populations suffer from far greater disparities in health than others. Those disparities are caused not only by fundamental differences in health status across segments of the population, but also because of inequities in factors that impact health status, so-called determinants of health. Only part of an individual's health status depends on his or her behavior and choice; community-wide problems like poverty, unemployment, poor education, inadequate housing, poor public transportation, interpersonal violence, and decaying neighborhoods also contribute to health inequities, as well as the historic and ongoing interplay of structures, policies, and norms that shape lives. When these factors are not optimal in a community, it does not mean they are intractable: such inequities can be mitigated by social policies that can shape health in powerful ways. *Communities in Action: Pathways to Health Equity* seeks to delineate the causes of and the solutions to health inequities in the United States. This report focuses on what communities can do to promote health equity, what actions are needed by the many and varied stakeholders that are part of communities or support them, as well as the root causes and structural barriers that need to be overcome.

How Life Got Made Random House

Ancestral DNA, Human Origins, and Migrations describes the genesis of humans in Africa and the subsequent story of how our species migrated to every corner of the globe. Different phases of this journey are presented in an integrative format with information from a number of disciplines, including population genetics, evolution, anthropology, archaeology, climatology, linguistics, art, music, folklore and history. This unique approach weaves a story that has synergistic impact in the clarity and level of understanding that will appeal to those researching, studying, and interested in population genetics, evolutionary biology, human migrations, and the beginnings of our species. Integrates research and information from the fields of genetics, evolution, anthropology, archaeology, climatology, linguistics, art, music, folklore and history, among others Presents the content in an entertaining and synergistic style to facilitate a deep understanding of human population genetics Informs on the origins and recent evolution of our species in an approachable manner

Human Reproductive Biology Garland Science

In the final years of the twentieth century, emigres from mechanical and electrical engineering and computer science resolved that if the aim of biology was to understand life, then making life would yield better theories than experimentation. Sophia Roosth, a cultural anthropologist, takes us into the world of these self-named synthetic biologists who, she shows, advocate not experiment but manufacture, not reduction but construction, not analysis but synthesis. Roosth reveals how synthetic biologists make new living things in order to understand better how life works. What we see through her careful questioning is that the biological features, theories, and limits they fasten upon are determined circularly by their own experimental tactics. This is a story of broad interest, because the active, interested making of the synthetic biologists is endemic to the sciences of our time."

Forensic Epidemiology Elsevier Health Sciences

The critically acclaimed, award-winning, modern classic *Speak* is now a stunning graphic novel. "Speak up for yourself—we want to know what you have to say." From the first moment of her freshman year at Merryweather High, Melinda knows this is a big fat lie, part of the nonsense of high school. She is friendless—an outcast—because she busted an end-of-summer party by calling the cops, so now nobody will talk to her, let alone listen to her. Through her work on an art project, she is finally able to face what really happened that

night: She was raped by an upperclassman, a guy who still attends Merryweather and is still a threat to her. With powerful illustrations by Emily Carroll, Laurie Halse Anderson's *Speak: The Graphic Novel* comes alive for new audiences and fans of the classic novel. This title has Common Core connections.

3-Volume Set John Wiley & Sons

Watch a video clips and view sample chapters at www.whfreeman.com/friedlandpreview Created for non-majors courses in environmental science, environmental studies, and environmental biology, *Environmental Science: Foundations and Applications* emphasizes critical thinking and quantitative reasoning skills. Students learn how to analyze graphs, measure environmental impact on various scales, and use simple calculations to understand key concepts. With a solid understanding of science fundamentals and how the scientific method is applied, students are able to evaluate information objectively and draw their own conclusions. The text equips students to interpret the wealth of data they will encounter as citizens, professionals, and consumers. Biology Academic Press

David Krogh's *Biology: A Guide to the Natural World* leads readers on a memorable journey through the world of biology, using relevant examples, clearly-developed illustrations, and helpful insights that will resonate with you. The Technology Update features margin callouts in the text, directing you to a significantly more robust MasteringBiology program. Widely recognized as a book that students enjoy reading, David Krogh uses discussions about social concerns and health applications, along with streamlined EOC material, to help engage you with the chapter.

Pathways to Health Equity W B Saunders Company

The most comprehensive text available on equine surgery, this book prepares the veterinary surgeon for managing each surgical condition by understanding its pathophysiology and evaluating alternative surgical approaches. Explanations describe how to avoid surgical infections, select and use instruments, and perfect fundamental surgical techniques including incisions, cautery, retractions, irrigation, surgical suction, wound closure, dressings, bandages, and casts. Thorough and complete coverage means this is the only book practitioners and students need. World-renowned contributors include 67 of the most experienced and expert equine practitioners, each providing current and accurate information. This text covers all the information needed to study for the American and European College of Veterinary Surgeons Board Examination, making it an excellent study tool. Coverage of anesthesiology and pain management is reintroduced in this edition. Extensive and up-to-date orthopedic coverage includes joint disorders and joint trauma. Integumentary system coverage includes wound management, reconstructive surgery, and skin grafting. Other important topics include the alimentary system, cardiovascular surgery, and new techniques in vascular surgery. More minimally invasive surgical techniques A section on anesthesia has been re-introduced to this edition

The Science of Biology Benjamin-Cummings Publishing Company

This unprecedented collection of 27,000 quotations is the most comprehensive and carefully researched of its kind, covering all fields of science and mathematics. With this vast compendium you can readily conceptualize and embrace the written images of scientists, laymen, politicians, novelists, playwrights, and poets about humankind's scientific achievements. Approximately 9000 high-quality entries have been added to this new edition to provide a rich selection of quotations for the student, the educator, and the scientist who would like to introduce a presentation with a relevant quotation that provides perspective and historical background on his subject. *Gaither's Dictionary of Scientific Quotations, Second Edition*, provides the finest reference source of science quotations for all audiences. The new edition adds greater depth to the number of quotations in the various thematic arrangements and also provides new thematic categories.

Nitric Oxide National Academies Press

This is an authoritative introductory text that presents biological concepts through the research that revealed them. "Life" covers the full range of topics with an integrated experimental focus that flows naturally from the narrative.

2 Volumes Jones & Bartlett Learning

Decades of research have demonstrated that the parent-child dyad and the environment of the family are "which includes all primary caregivers" are at the foundation of children's well-being and healthy development. From birth, children are learning and rely on parents and the other caregivers in their lives to protect and care for them. The impact of parents may never be greater than during the earliest years of life, when a child's brain is rapidly developing and when nearly all of her or his experiences are created and shaped by parents and the family environment. Parents help children build and refine their knowledge and skills, charting a trajectory for their health and well-being during childhood and beyond. The experience of parenting also impacts parents themselves. For instance, parenting can enrich and give focus to parents' lives; generate stress or calm; and create

any number of emotions, including feelings of happiness, sadness, fulfillment, and anger. Parenting of young children today takes place in the context of significant ongoing developments. These include: a rapidly growing body of science on early childhood, increases in funding for programs and services for families, changing demographics of the U.S. population, and greater diversity of family structure. Additionally, parenting is increasingly being shaped by technology and increased access to information about parenting. *Parenting Matters* identifies parenting knowledge, attitudes, and practices associated with positive developmental outcomes in children ages 0-8; universal/preventive and targeted strategies used in a variety of settings that have been effective with parents of young children and that support the identified knowledge, attitudes, and practices; and barriers to and facilitators for parents' use of practices that lead to healthy child outcomes as well as their participation in effective programs and services. This report makes recommendations directed at an array of stakeholders, for promoting the wide-scale adoption of effective programs and services for parents and on areas that warrant further research to inform policy and practice. It is meant to serve as a roadmap for the future of parenting policy, research, and practice in the United States.

Gaither's Dictionary of Scientific Quotations MIT Press

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.

New Scientist Macmillan

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.

Genome Transcriptome and Proteome Analysis Pearson

This text provides a comprehensive introduction to human anatomy for undergraduate and pre-professional students majoring in biology or fulfilling prerequisites for nursing, allied health, or pre-med programs. Since its first edition *Human Anatomy* has been praised for its clarity of presentation, its outstanding visually-oriented illustration program, and its ability to help students understand anatomical structures. Past editions of *Human Anatomy* have won very prestigious awards, including the award for Textbook Excellence by the Text and Academic Authors Association and the award for Illustration Excellence by the Association of Medical Illustrators. Innovative pedagogical elements and a tightly-integrated supplements package make this new edition an excellent choice for all anatomy courses. *Enhanced illustration and photo program - Renowned medical illustrators, Bill Ober, M.D. and Claire Garrison, R.N., and internationally known biomedical photographer Ralph Hutchings have executed an outstanding visual orientation to human anatomy. *Students have the best visual support of any text in the market—with large, clear illustrations that relate isolated anatomical elements to the whole

Biological Science, Loose-Leaf Edition Liturgical 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.

Biological Science With Masteringbiology Pearson Higher Ed

This text aims to establish biology as a discipline, not just a collection of facts. 'Life' develops students'

understanding of biological processes with scholarship, a smooth narrative, experimental contexts, art and effective pedagogy.

A Guide to the Natural World Technology Update Benjamin Cummings

In *From the Beginning to Baptism*, Linda Gibler takes readers on a journey 'from the depths of space and the beginning of time through sacred Scripture and church history 'to discover the origins and creative power of water, oil, and fire. She traces the lives of those elemental entities through their cosmic history, to the point at which they are poured over the head and light the way of one being baptized. These elemental sources of all life are the substances through which new life in Christ begins in the sacrament of baptism. The journey through space and time, through the birth of the Universe and of life, and Gibler's reflections on this drama, help readers to enter into the cosmocentric spirituality" at the heart of all things. No one who reads this book will ever again look at a drop of water, an olive, or a candle with the same eyes. Linda Gibler, PhD, a Houston Dominican Sister, is currently associate academic dean at the Oblate School of Theology in San Antonio, Texas. She has several years ' experience as a parish minister and is the science editor and a contributing author for the Collins Foundation Press, which hosts conferences on the significance of recent scientific revelations for faith, meaning, and the well-being of Earth and all her species.

Communities in Action Pearson

There has been debate in philosophy of biology over the decade since the first edition of this anthology appeared. Changes and additions in the new edition reflect the ways in which the subject has broadened and deepened on several fronts; more than half of the chapters are new. In all, twenty-three selections take up fitness, function and teleology, adaptationism, units of selection, essentialism and population thinking, species, systematic philosophies, phylogenetic inference, reduction of Mendelian genetics to molecular biology, ethics and sociobiology, and cultural evolution and evolutionary epistemology.

Molecular Biology of the Cell 6E - The Problems Book Macmillan

Presents aquatic chemistry in a way that is truly useful to those with diverse backgrounds in the sciences. Major improvements to this edition include a complete rewrite of the first three background chapters making them user-friendly. There is less emphasis on mathematics and concepts are illustrated with actual examples to facilitate understanding.

Academic Press

The Problems Book helps students appreciate the ways in which experiments and simple calculations can lead to an understanding of how cells work by introducing the experimental foundation of cell and molecular biology. Each chapter reviews key terms, tests for understanding basic concepts, and poses research-based problems. The Problems Book has been

Equine Surgery Macmillan

Nitric oxide (NO) is a gas that transmits signals in an organism. Signal transmission by a gas that is produced by one cell and which penetrates through membranes and regulates the function of another cell represents an entirely new principle for signaling in biological systems. NO is a signal molecule of key importance for the cardiovascular system acting as a regulator of blood pressure and as a gatekeeper of blood flow to different organs. NO also exerts a series of other functions, such as acting a signal molecule in the nervous system and as a weapon against infections. NO is present in most living creatures and made by many different types of cells. NO research has led to new treatments for treating heart as well as lung diseases, shock, and impotence. Scientists are currently testing whether NO can be used to stop the growth of cancerous tumors, since the gas can induce programmed cell death, apoptosis. This book is the first comprehensive text on nitric oxide to cover all aspects--basic biology, chemistry, pathobiology, effects on various disease states, and therapeutic implications. Edited by Nobel Laureate Louis J. Ignarro, editor of the Academic Press journal, *Nitric Oxide* Authored by world experts on nitric oxide Includes an overview of basic principles of biology and chemical biology Covers principles of pathobiology, including the nervous system, cardiovascular function, pulmonary function, and immune defense