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Good Practice In Science Teaching: What Research Has To Say - Osborne, Jonathan 2010-05-01

This volume provides a summary of the findings that educational research has to offer on good practice in school science teaching. It offers an overview of scholarship and research in the field, and introduces the ideas and evidence that guide it.

Mitochondrial Function in Lung Health and Disease - Viswanathan Natarajan 2014-07-26

Mitochondria, often referred to as the “powerhouses” of the cell, generate adenosine triphosphate (ATP) by oxidative phosphorylation or OXPHOS, and maintain cellular homeostasis. In addition to generating ATP, mitochondria are involved in regulation of cell cycle, proliferation, free radical production, innate immune responses and apoptosis. *Mitochondrial Function in Lung Health and Disease* fills the current gap in the literature and outlines the growing clinical relevance of mitochondrial dysfunction. Currently, there is no overview on the role of mitochondria in pulmonary diseases and this volume focuses on the mitochondrial metabolism, redox signaling, and mechanisms of mitochondrial pathways in lung injury, inflammation, repair and remodeling. Furthermore, in addition to their well-recognized role in cellular energy production and apoptosis, mitochondria appear to play a role in many respiratory diseases and lung cancer. Chapters are written by top notch researchers and clinicians and outline the evidence for mitochondrial biogenesis in inhalational lung injury, COPD and asthma.

Biology: Concepts and Applications - Cecie Starr 2016-12-05

Authors Cecie Starr, Christine A. Evers, and Lisa Starr partnered with the National Geographic Society to develop this edition of **BIOLOGY: CONCEPTS AND APPLICATIONS**. Renowned for its clear writing style and unparalleled visuals, this trendsetting book applies exclusive National Geographic content to engage students and emphasize that biology is an ongoing endeavor carried out by a diverse community of scientists. Each chapter explores core concepts aligned with the American Association for the Advancement of Science

(AAAS) initiative “Vision and Change in Undergraduate Biology Education” to help students master associated learning objectives. By continuously challenging students to question what they read and to apply the concepts they learn, the text allows our citizens and future policy-makers to hone critical thinking skills as they gain scientific literacy. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Drugs, Brains, and Behavior - 2007

"Drugs, Brains, and Behavior" is an online textbook written by C. Robin Timmons and Leonard W. Hamilton. The book was previously published by Prentice Hall, Inc. in 1990 as "Principles of Behavioral Pharmacology." The authors attempt to develop an understanding of the interpenetration of brain, behavior and environment. They discuss the chemistry of behavior in both the literal sense of neurochemistry and the figurative sense of an analysis of the reactions with the environment.

The Operon - Jeffrey H. Miller 1980

The Plant Cell Cycle - Dirk Inzé 2000-11-30

In recent years, the study of the plant cell cycle has become of major interest, not only to scientists working on cell division *sensu strictu* , but also to scientists dealing with plant hormones, development and environmental effects on growth. The book *The Plant Cell Cycle* is a very timely contribution to this exploding field. Outstanding contributors reviewed, not only knowledge on the most important classes of cell cycle regulators, but also summarized the various processes in which cell cycle control plays a pivotal role. The central role of the cell cycle makes this book an absolute must for plant molecular biologists.

NSSC Biology Module 3 - Ngpathimo Kadhila 2005-10-01

NSSC Biology is a course consisting of three Modules, an Answer Book and a Teacher's Guide. The course

has been written and designed to prepare students for the Namibia Senior Secondary Certificate (NSSC) Ordinary and Higher Level, or similar examinations. The modules have been developed for distance learners and learners attending schools. NSSC Biology is high-quality support material. Features of the books include:

- ' modules divided into units, each focusing on a different theme
- ' stimulating and thought-provoking activities, designed to encourage critical thinking
- ' word boxes providing language support
- ' highlighted and explained key terminology
- ' step-by-step guidelines aimed towards achieving the learning outcomes
- ' self-evaluation to facilitate learning and assess skills and knowledge
- ' clear distinction between Ordinary and Higher Level content
- ' an outcomes-based approach encouraging student-centred learning
- ' detailed feedback in the Answer Book promoting a thorough understanding of content through recognising errors and correcting them.

Cellular Organelles - Edward Bittar 1995-12-08

The purpose of this volume is to provide a synopsis of present knowledge of the structure, organisation, and function of cellular organelles with an emphasis on the examination of important but unsolved problems, and the directions in which molecular and cell biology are moving. Though designed primarily to meet the needs of the first-year medical student, particularly in schools where the traditional curriculum has been partly or wholly replaced by a multi-disciplinary core curriculum, the mass of information made available here should prove useful to students of biochemistry, physiology, biology, bioengineering, dentistry, and nursing. It is not yet possible to give a complete account of the relations between the organelles of two compartments and of the mechanisms by which some degree of order is maintained in the cell as a whole. However, a new breed of scientists, known as molecular cell biologists, have already contributed in some measure to our understanding of several biological phenomena notably interorganelle communication. Take, for example, intracellular membrane transport: it can now be expressed in terms of the sorting, targeting, and transport of protein from the endoplasmic reticulum to another compartment. This volume contains the first ten chapters on the subject of organelles. The remaining four are in Volume 3, to which sections on organelle disorders and the extracellular matrix have been added.

Introduction to Sports Medicine and Athletic Training (Book Only) - Robert C France 2010-01-01

Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Encyclopedia of Human Nutrition - Benjamin Caballero 2005

Inquiry Into Biology: ... Computerized assessment bank CD-ROM - Helen Colbourne 2007

Fundamentals of Fire Fighter Skills - David Schottke 2014

Campbell Biology, Books a la Carte Edition - Lisa A. Urry 2016-10-27

NOTE: This edition features the same content as the traditional text in a convenient, three-hole-punched, loose-leaf version. Books a la Carte also offer a great value--this format costs significantly less than a new textbook. The Eleventh Edition of the best-selling text Campbell BIOLOGY sets you on the path to success in biology through its clear and engaging narrative, superior skills instruction, and innovative use of art, photos, and fully integrated media resources to enhance teaching and learning. To engage you in developing a deeper understanding of biology, the Eleventh Edition challenges you to apply knowledge and skills to a variety of NEW! hands-on activities and exercises in the text and online. NEW! Problem-Solving Exercises challenge you to apply scientific skills and interpret data in the context of solving a real-world problem. NEW! Visualizing Figures and Visual Skills Questions provide practice interpreting and creating visual representations in biology. NEW! Content updates throughout the text reflect rapidly evolving research in the fields of genomics, gene editing technology (CRISPR), microbiomes, the impacts of climate change across the biological hierarchy, and more. Significant revisions have been made to Unit 8, Ecology, including a deeper integration of evolutionary principles. NEW! A virtual layer to the print text incorporates media references into the printed text to direct you towards content in the Study Area and eText that will help you prepare for class and succeed in exams--Videos, Animations, Get Ready for This Chapter, Figure Walkthroughs, Vocabulary Self-Quizzes, Practice Tests, MP3 Tutors, and Interviews. (Coming summer 2017). NEW! QR codes and URLs within the Chapter Review provide easy access to Vocabulary Self-Quizzes and Practice Tests for each chapter that can be used on smartphones, tablets, and computers.

Mitochondrial Dysfunction - Lawrence H. Lash 2013-10-22

Methods in Toxicology, Volume 2: Mitochondrial Dysfunction provides a source of methods, techniques, and experimental approaches for studying the role of abnormal mitochondrial function in cell injury. The book discusses the methods for the preparation and basic functional assessment of mitochondria from liver, kidney, muscle, and brain; the methods for assessing mitochondrial dysfunction in vivo and in intact organs; and the structural aspects of mitochondrial dysfunction are addressed. The text also describes chemical detoxification and metabolism as well as specific metabolic reactions that are especially important targets or indicators of damage. The methods for measurement of alterations in fatty acid and phospholipid metabolism and for the analysis and manipulation of oxidative injury and antioxidant systems are also considered. The book further tackles additional methods on mitochondrial energetics and transport processes; approaches for assessing

impaired function of mitochondria; and genetic and developmental aspects of mitochondrial disease and toxicology. The text also looks into mitochondrial DNA synthesis, covalent binding to mitochondrial DNA, DNA repair, and mitochondrial dysfunction in the context of developing individuals and cellular differentiation.

Microbiologists, toxicologists, biochemists, and molecular pharmacologists will find the book invaluable.

Reading and Writing in Science - Maria C. Grant 2015-01-21

Engage your students in scientific thinking across disciplines! Did you know that scientists spend more than half of their time reading and writing? Students who are science literate can analyze, present, and defend data – both orally and in writing. The updated edition of this bestseller offers strategies to link the new science standards with literacy expectations, and specific ideas you can put to work right away. Features include: A discussion of how to use science to develop essential 21st century skills Instructional routines that help students become better writers Useful strategies for using complex scientific texts in the classroom Tools to monitor student progress through formative assessment Tips for high-stakes test preparation

Anti-Inflammatory Drug Discovery - Jeremy I. Levin 2012

A comprehensive review of recent medicinal chemistry approaches to a variety of important therapeutic targets and a key reference for those interested in the prosecution of modern drug discovery programs directed at anti-inflammatory mechanisms of action.

Sci-Book - Aaron D. Isabelle 2017-12-06

"A "Sci-Book" or "Science Notebook" serves as an essential companion to the science curriculum supplement, STEPS to STEM. As students learn key concepts in the seven "big ideas" in this program (Electricity & Magnetism; Air & Flight; Water & Weather; Plants & Animals; Earth & Space; Matter & Motion; Light & Sound), they record their ideas, plans, and evidence. There is ample space for students to keep track of their observations and findings, as well as a section to reflect upon the use of "Science and Engineering Practices" as set forth in the Next Generation Science Standards (NGSS). Using a science notebook is reflective of the behavior of scientists. One of the pillars of the Nature of Science is that scientists must document their work to publish their research results; it is a necessary part of the scientific enterprise. This is important because STEPS to STEM is a program for young scientists who learn within a community of scientists. Helping students to think and act like scientists is a critical feature of this program. Students learn that they need to keep a written record if they are to successfully share their discoveries and curiosities with their classmates and with the teacher. Teachers should also model writing in science to help instill a sense of purpose and pride in using and maintaining a Sci-Book. Lastly, students' documentation can serve as a valuable form of authentic assessment; teachers can utilize Sci-Books to monitor the learning process and the

development of science skills."

An Introduction to Photosynthesis - Agatha Wilson 2015

The most basic and significant aspect of life process on earth is linked to the process of photosynthesis. Photosynthesis is the most researched field amongst the scientific community. The present book examines the fundamentals of photosynthesis, and its impact on different life forms. The book contains important sections analyzing light and photosynthesis, the importance of carbon in photosynthesis, and discusses other significant topics related to the process of photosynthesis. The chapters are well-structured and are contributed by experts in the field. The readers will gain ample knowledge from the new findings documented in the book.

Bone Health and Osteoporosis - United States Public Health Service 2004-12

This first-ever Surgeon General's Report on bone health and osteoporosis illustrates the large burden that bone disease places on our Nation and its citizens. Like other chronic diseases that disproportionately affect the elderly, the prevalence of bone disease and fractures is projected to increase markedly as the population ages. If these predictions come true, bone disease and fractures will have a tremendous negative impact on the future well-being of Americans. But as this report makes clear, they need not come true: by working together we can change the picture of aging in America. Osteoporosis, fractures, and other chronic diseases no longer should be thought of as an inevitable part of growing old. By focusing on prevention and lifestyle changes, including physical activity and nutrition, as well as early diagnosis and appropriate treatment, Americans can avoid much of the damaging impact of bone disease and other chronic diseases. This Surgeon General's Report brings together for the first time the scientific evidence related to the prevention, assessment, diagnosis, and treatment of bone disease. More importantly, it provides a framework for moving forward. The report will be another effective tool in educating Americans about how they can promote bone health throughout their lives. This first-ever Surgeon General's Report on bone health and osteoporosis provides much needed information on bone health, an often overlooked aspect of physical health. This report follows in the tradition of previous Surgeon Generals' reports by identifying the relevant scientific data, rigorously evaluating and summarizing the evidence, and determining conclusions.

Glencoe Biology, Student Edition - McGraw-Hill Education 2016-06-06

Biology - Richard W. Cheney, Jr. 2006-04

The student workbook invites and requires students' active participation, is organized to match sections in the text, and is very easy to use. Each chapter includes interactive exercises, self-quizzes, chapter

objectives/review questions, media menu review questions, and integrating and applying key concepts questions and answers. As students write in their responses to the questions, their understanding increases.

Secrets to Success for Science Teachers - Ellen Kottler 2009-03-17

"This book isn't just for new teachers! Even after years as a science teacher, this book gave me suggestions to use right away in my classroom."-Regina Brinker, Science Teacher Christensen Middle School, Livermore, CA Create a science classroom that fosters a creative learning community and leads to success! From successfully setting up a classroom to achieving meaningful instruction, science teachers face a variety of challenges unique to their practice every day. This easy-to-read guide provides new and seasoned teachers with practical ideas, strategies, and insights to help address essential topics in effective science teaching, including emphasizing inquiry, building literacy, implementing technology, using a wide variety of science resources, and maintaining student safety. Aligned with current science standards, this guide helps teachers streamline their efforts, organize their work, and set the stage for outstanding instruction and enthusiastic student participation. Other features include: Practical examples, snapshots of moments in the history of science, and Web references A compilation of professional development activities Checklists to rate curricula and textbooks Guidance on networking with colleagues and establishing relationships with families By leveraging this book's rich resources, science teachers will discover how to turn their classrooms into thriving environments for learning.

[PISA 2009 Assessment Framework Key Competencies in Reading, Mathematics and Science](#) - OECD 2010-01-19

This book presents the theory behind the development of the 2009 PISA survey.

Transport in Plants II - U. Lüttge 1976-05-01

As plant physiology increased steadily in the latter half of the 19th century, problems of absorption and transport of water and of mineral nutrients and problems of the passage of metabolites from one cell to another were investigated, especially in Germany. JUSTUS VON LIEBIG, who was born in Darmstadt in 1803, founded agricultural chemistry and developed the techniques of mineral nutrition in agriculture during the 70 years of his life. The discovery of plasmolysis by NAGEL! (1851), the investigation of permeability problems of artificial membranes by TRAUBE (1867) and the classical work on osmosis by PFEFFER (1877) laid the foundations for our understanding of soluble substances and osmosis in cell growth and cell mechanisms. Since living membranes were responsible for controlling both water movement and the substances in solution, "permeability" became a major topic for investigation and speculation. The problems then discussed under that heading included passive permeation by diffusion, Donnan equilibrium adjustments,

active transport processes and antagonism between ions. In that era, when organelle isolation by differential centrifugation was unknown and the electron microscope had not been invented, the number of cell membranes, their thickness and their composition, were matters for conjecture. The nature of cell surface membranes was deduced with remarkable accuracy from the reactions of cells to substances in solution. In 1895, OVERTON, in U. S. A. , published the hypothesis that membranes were probably lipid in nature because of the greater penetration by substances with higher fat solubility.

Organelles in Eukaryotic Cells - Joseph M. Tager 2012-12-06

Every year, the Federation of European Biochemical Societies sponsors a series of Advanced Courses designed to acquaint postgraduate students and young postdoctoral fellows with theoretical and practical aspects of topics of current interest in biochemistry, particularly within areas in which significant advances are being made. This volume contains the Proceedings of FEBS Advanced Course No. 88-02 held in Bari, Italy on the topic "Organelles of Eukaryotic Cells: Molecular Structure and Interactions. " It was a deliberate decision of the organizers not to restrict FEBS Advanced Course 88-02 to a discussion of a single organelle or a single aspect but to cover a broad area. One of the objectives of the course was to compare different organelles in order to allow the participants to discern recurrent themes which would illustrate that a basic unity exists in spite of the diversity. A second objective of the course was to acquaint the participants with the latest experimental approaches being used by investigators to study different organelles; this would illustrate that methodologies developed for studying the biogenesis of the structure-function relationships in one organelle can often be applied fruitfully to investigate such aspects in other organelles. A third objective was to impress upon the participants that a study of the interaction between different organelles is intrinsic to understanding their physiological functions. This volume is divided into five sections. Part I is entitled "Structure and Organization of Intracellular Organelles.

Microbial Respiration - Walter P. Hempfling 1979

Biology Unit 2 for CAPE® Examinations - Myda Ramesar 2011-09-22

Textbook provides complete coverage of the CAPE Biology Unit 2 syllabus. There are worked examples, a glossary of important biological terms, end of chapter questions in a range of formats (multiple choice, structured and essay questions) and a summary of key ideas at the end of the chapter --

Folic Acid and Folates - Gerald Litwack 2008-10

First published in 1943, Vitamins and Hormones is the longest-running serial published by Academic Press. In the early days of the serial, the subjects of vitamins and hormones were quite distinct. The Editorial Board

now reflects expertise in the field of hormone action, vitamin action, X-ray crystal structure, physiology, and enzyme mechanisms. *Includes color illustrations *Available on ScienceDirect *Longest running series published by Academic Press *Contributions by leading international authorities

Biology Today and Tomorrow with Physiology - Cecie Starr 2015-03-31

Strike the perfect balance between level of detail and accessibility! Written for a one-semester, non-Biology majors course, BIOLOGY TODAY AND TOMORROW is packed with applications that are relevant to a student's daily life. The clear, straightforward writing style, in-text learning support, and trendsetting art engage students and help them understand key concepts. The accompanying MindTap for Biology is the most engaging and easiest to customize online solution in Biology. Overall, this accessible introduction helps students develop an understanding of biology and the process of science while building the critical-thinking skills they need to become responsible citizens of the world. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Life on an Ocean Planet - 2010

Teacher digital resource package includes 2 CD-ROMs and 1 user guide. Includes Teacher curriculum guide, PowerPoint chapter presentations, an image gallery of photographs, illustrations, customizable presentations and student materials, Exam Assessment Suite, PuzzleView for creating word puzzles, and LessonView for dynamic lesson planning. Laboratory and activity disc includes the manual in both student and teacher editions and a lab materials list.

Plant Cell Organelles - J Pridham 2012-12-02

Plant Cell Organelles contains the proceedings of the Phytochemical Group Symposium held in London on April 10-12, 1967. Contributors explore most of the ideas concerning the structure, biochemistry, and function of the nuclei, chloroplasts, mitochondria, vacuoles, and other organelles of plant cells. This book is organized into 13 chapters and begins with an overview of the enzymology of plant cell organelles and the localization of enzymes using cytochemical techniques. The text then discusses the structure of the nuclear envelope, chromosomes, and nucleolus, along with chromosome sequestration and replication. The next chapters focus on the structure and function of the mitochondria of higher plant cells, biogenesis in yeast, carbon pathways, and energy transfer function. The book also considers the chloroplast, the endoplasmic reticulum, the Golgi bodies, and the microtubules. The final chapters discuss protein synthesis in cell organelles; polysomes in plant tissues; and lysosomes and spherosomes in plant cells. This book is a valuable source of information for postgraduate workers, although much of the material could be used in undergraduate courses.

Applying Communication Theory for Professional Life - Marianne Dainton 2018-01-08

Updated Edition of Bestseller! Applying Communication Theory for Professional Life is the first communication theory textbook to provide practical material for career-oriented students. Featuring new case studies, updated examples, and the latest research, the Fourth Edition of this bestseller introduces communication theory in a way that helps students understand its importance to careers in communication and business. Real-world case studies within each chapter are designed to illustrate the application of theory in a variety of professional settings. Give your students the SAGE edge! SAGE edge offers a robust online environment featuring an impressive array of free tools and resources for review, study, and further exploration, keeping both instructors and students on the cutting edge of teaching and learning.

Concepts of Biology - Samantha Fowler 2018-01-07

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.

Straight from the Bear's Mouth - Bill Ross 1995

Dr. Mildew, an eccentric scientist, helps Dina and Jake set up a science project on photosynthesis.

Learning Theories - Dale H. Schunk 2011-11-21

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Written to inform students of the main principles, concepts, and research findings of key theories of learning—especially as they relate to education—and to provide applications of principles and concepts in settings where teaching and learning occur, this revised text blends theory, research, and applications throughout, providing its readers with a coherent and unified

perspective on learning in educational settings. The primary emphasis is placed on cognitive theories that stress learners' constructions of beliefs, skills, strategies, and knowledge, but behavioral theories are also discussed in detail. Chapters have numerous applications of learning principles to applied settings including vignettes at the start of each chapter illustrating some of the principles discussed in the chapter, examples and applications throughout the chapters, and separate sections on instructional applications at the end of each chapter. Key features of this revised text include: a new chapter on Self-Regulation (Chapter 9); core chapters on the neuroscience of learning (Chapter 2), constructivism (Chapter 6), cognitive learning processes (Chapter 7), motivation (Chapter 8), and development (Chapter 10) all related to teaching and learning; updated sections on learning from technology and electronic media and how these advancements effectively promote learning in students (Chapters 7 & 10); detailed information on content-area learning and models of instruction to form coherence and connection between teaching and learning in different content areas, learning principles, and processes (Chapters 2-10); and over 140 new references on the latest theoretical ideas, research findings, and applications in the field. An essential resource for understanding key learning theoretical principles, concepts, and research findings—especially as they relate to education—this proven text blends theory, research, and applications throughout, providing its readers with a coherent and unified perspective on learning in educational settings.

Biology Today and Tomorrow - Cecie Starr 2004-02

The student workbook invites and requires students' active participation, is organized to match sections in the text, and is very easy to use. Each chapter includes interactive exercises, self-quizzes, chapter objectives/review questions, media menu review questions, and integrating and applying key concepts questions and answers. As students write in their responses to the questions, their understanding increases.

Cell Organelles - Reinhold G. Herrmann 2012-12-06

The compartmentation of genetic information is a fundamental feature of the eukaryotic cell. The metabolic capacity of a eukaryotic (plant) cell and the steps leading to it are overwhelmingly an endeavour of a joint genetic cooperation between nucleus/cytosol, plastids, and mitochondria. Alter ation of the genetic material in anyone of these compartments or exchange of organelles between species can seriously affect harmoniously balanced growth of an organism. Although the biological significance of this genetic design has been vividly evident since the discovery of non-Mendelian inheritance by Baur and Correns at the beginning of this century, and became indisputable in principle after Renner's work on interspecific nuclear/plastid hybrids (summarized in his classical article in 1934), studies on the genetics of organelles have long suffered from the lack of respectabil ity. Non-Mendelian inheritance was considered a research sideline~ifnot a freak~by most

geneticists, which becomes evident when one consults common textbooks. For instance, these have usually impeccable accounts of photosynthetic and respiratory energy conversion in chloroplasts and mitochondria, of metabolism and global circulation of the biological key elements C, N, and S, as well as of the organization, maintenance, and function of nuclear genetic information. In contrast, the heredity and molecular biology of organelles are generally treated as an adjunct, and neither goes as far as to describe the impact of the integrated genetic system.

The Ocean and Cryosphere in a Changing Climate - Intergovernmental Panel on Climate Change (IPCC) 2022-04-30

The Intergovernmental Panel on Climate Change (IPCC) is the leading international body for assessing the science related to climate change. It provides policymakers with regular assessments of the scientific basis of human-induced climate change, its impacts and future risks, and options for adaptation and mitigation. This IPCC Special Report on the Ocean and Cryosphere in a Changing Climate is the most comprehensive and up-to-date assessment of the observed and projected changes to the ocean and cryosphere and their associated impacts and risks, with a focus on resilience, risk management response options, and adaptation measures, considering both their potential and limitations. It brings together knowledge on physical and biogeochemical changes, the interplay with ecosystem changes, and the implications for human communities. It serves policymakers, decision makers, stakeholders, and all interested parties with unbiased, up-to-date, policy-relevant information. This title is also available as Open Access on Cambridge Core.

The Poisoner's Handbook - Deborah Blum 2011-01-25

Equal parts true crime, twentieth-century history, and science thriller, *The Poisoner's Handbook* is "a vicious, page-turning story that reads more like Raymond Chandler than Madame Curie." —The New York Observer "The Poisoner's Handbook breathes deadly life into the Roaring Twenties." —Financial Times "Reads like science fiction, complete with suspense, mystery and foolhardy guys in lab coats tipping test tubes of mysterious chemicals into their own mouths." —NPR: What We're Reading A fascinating Jazz Age tale of chemistry and detection, poison and murder, *The Poisoner's Handbook* is a page-turning account of a forgotten era. In early twentieth-century New York, poisons offered an easy path to the perfect crime. Science had no place in the Tammany Hall-controlled coroner's office, and corruption ran rampant. However, with the appointment of chief medical examiner Charles Norris in 1918, the poison game changed forever. Together with toxicologist Alexander Gettler, the duo set the justice system on fire with their trailblazing scientific detective work, triumphing over seemingly unbeatable odds to become the pioneers of forensic chemistry and the gatekeepers of justice. In 2014, PBS's AMERICAN EXPERIENCE released a film based on The

Poisoner's Handbook.

Biology for AP® Courses - Julianne Zedalis 2017-10-16

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.