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Adapting Technology for School Improvement David W. Chapman 2004
The Biology of Exercise Michael J. Joyner 2017 Exercise training provokes widespread transformations in the human body, requiring coordinated changes in muscle composition, blood flow, neuronal and hormonal signaling, and metabolism. These changes enhance physical performance, improve mental health, and delay the onset of aging and disease. Understanding the molecular basis of these changes is therefore important for optimizing athletic ability and for developing drugs that elicit therapeutic effects. Written and edited by experts in the field, this collection from Cold Spring Harbor Perspectives in Medicine examines the biological basis of exercise from the molecular to the systemic levels. Contributors discuss how transcriptional regulation, cytokine and hormonal signaling, glucose metabolism, epigenetic modifications, microRNA profiles, and mitochondrial and ribosomal functions are altered in response to exercise training, leading to improved skeletal muscle, hippocampal, and cardiovascular function. Cross talk among the pathways underlying tissue-specific and systemic responses to exercise is also considered. The authors also discuss how the understanding of such molecular mechanisms may lead to the development of drugs that mitigate aging and disease. This volume will therefore serve as a vital reference for all involved in the fields of sports science and medicine, as well as anyone seeking to understand the molecular mechanisms by which exercise promotes whole-body health.
Equine Wound Management Ted S. Stashak 2011-11-16
IB Physics Course Book Michael Bowen-Jones 2014-01 The most comprehensive match to the new 2014 Chemistry syllabus, this completely revised edition gives you unrivalled support for the new concept-based approach, the Nature of science. The only DP Chemistry resource that includes support directly from the IB, focused exam practice, TOK links and real-life applications drive achievement.
Ecosystem Effects of Fishing in the Mediterranean Sergi Tudela 2004 Most of the major impacts of fishing on the ecosystems recorded around the world occur in the Mediterranean. This variety of interactions is due to four main interrelated factors: the wide range of fishing gear and practices; very intensive fishing; a high diversity of exploited habitats, ranging from shallow water to the deep-sea and oceanic domain; and high biological diversity.
Metallothionein IV C. Klaasen 2012-12-06 The Proceedings of the Fourth International Metallothionein Meeting (MT-97) feature the latest research on metallothionein. The book covers a broad range of topics which provide important information for both basic and clinical investigators. The selected 94 articles in this book are written by the leading scientists in the field around the world. This is an increasingly important, multi-disciplinary area of study that has benefitted from recent advances in concepts and methodologies from other fields.
The Next Step 2017-03 The Next Step: Exponential Life presents essays on the potential of what are known as "exponential technologies"--those whose development is accelerating rapidly, such as robotics, artificial intelligence or industrial biology--considering their economic, social, environmental, ethical and even ontological implications. This book's premise is that humanity is at the beginning of a technological revolution that is evolving at a much faster pace than earlier ones--a revolution is so far-reaching it is destined to generate transformations we can only begin to imagine. Contributors include Aubrey D.N.J. de Grey, Jonathan Rossiter, Joseph A. Paradiso, Kevin Warwick, Huma Shah, Ramón López de Mántaras, Helen Papagiannis, Jay David Bolter, Maria Engberg, Robin Hanson, Stuart Russell, Darrell M. West, Francisco González, Chris Skinner, Steven Monroe Lipkin, S. Matthew Liao, James Giordano, Luciano Floridi, Seán Ó Héigeartaigh and Martin Rees.
Who's Who in the Midwest 2006 Marquis Who's Who, LLC 2005
How Tobacco Smoke Causes Disease 2010 This report considers the biological and behavioral mechanisms that may underlie the pathogenicity of tobacco smoke. Many Surgeon General's reports have considered research findings on mechanisms in assessing the biological plausibility of associations observed in epidemiologic studies. Mechanisms of disease are important because they may provide plausibility, which is one of the guideline criteria for assessing evidence on causation. This report specifically reviews the evidence on the potential mechanisms by which smoking causes diseases and considers whether a mechanism is likely to be operative in the production of human disease by tobacco smoke. This evidence is relevant to understanding how smoking causes disease, to identifying those who may be particularly susceptible, and to assessing the potential risks of tobacco products.
Management of Business Jerome Pitterson 2016-03
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
Collins Biology Workbook for Csec Anne Tindale 2015-05-04 This Biology Workbook for CSEC is a valuable activity book for CSEC Biology students. It covers all aspects of the Caribbean Examinations Council’s Certificate of Secondary Education Biology syllabus. This book provides excellent practice for the structured question from Paper 2 of the CSEC Examination and is a great aid to revision and examination practice. It has been specially written to help CSEC students maximize their exam scores.
Human Herpesviruses Ann Arvin 2007-08-16 This comprehensive account of the human herpesviruses provides an encyclopedic overview of their basic virology and clinical manifestations. This group of viruses includes human simplex type 1 and 2, Epstein–Barr virus, Kaposi's Sarcoma-associated herpesvirus, cytomegalovirus, HHV6A, 6B and 7, and varicella-zoster virus. The viral diseases and cancers they cause are significant and often recurrent. Their prevalence in the developed world accounts for a major burden of disease, and as a result there is a great deal of research into the pathophysiology of infection and immunobiology. Another important area covered within this volume concerns antiviral therapy and the development of vaccines. All these aspects are covered in depth, both scientifically and in terms of clinical guidelines for patient care. The text is illustrated generously throughout and is fully referenced to the latest research and developments.
The Journal of Immunology 2005
Essentials of Stem Cell Biology Robert Lanza 2009-06-05 First developed as an accessible abridgement of the successful Handbook of Stem Cells, Essentials of Stem Cell Biology serves the needs of the evolving population of scientists, researchers, practitioners and students that are embracing the latest advances in stem cells. Representing the combined effort of seven editors and more than 200 scholars and scientists whose pioneering work has defined our understanding of stem cells, this book combines the prerequisites for a general understanding of adult and embryonic stem cells with a presentation by the world's experts of the latest research information about specific organ systems. From basic biology/mechanisms, early development, ectoderm, mesoderm, endoderm, methods to application of stem cells to specific human diseases, regulation and ethics, and patient perspectives, no topic in the field of stem cells is left uncovered. Selected for inclusion in Doody's Core Titles 2013, an essential collection development tool for health sciences libraries Contributions by Nobel Laureates and leading international investigators Includes two entirely new chapters devoted exclusively to induced pluripotent stem (iPS) cells written by the

scientists who made the breakthrough Edited by a world-renowned author and researcher to present a complete story of stem cells in research, in application, and as the subject of political debate Presented in full color with glossary, highlighted terms, and bibliographic entries replacing references

Introduction to Protein Structure Carl Ivar Branden 2012-03-26 The VitalBook e-book of Introduction to Protein Structure, Second Edition is inly available in the US and Canada at the present time. To purchase or rent please visit http://store.vitalsource.com/show/9780815323051Introduction to Protein Structure provides an account of the principles of protein structure, with examples of key proteins in their bio

G Protein-coupled Receptor Mediated Signaling Pathways in Human Pancreatic Cancer Sushovan Guha 2005

Transport of Fluids in Nanoporous Materials Suresh K. Bhatia 2019-01-25 This book is a printed edition of the Special Issue "Transport of Fluids in Nanoporous Materials" that was published in Processes

Biology Unit 1 for CAPE Examinations Myda Ramesar 2011-03-17 Two new titles that provide comprehensive coverage of the syllabus. Units 1 and 2 of Biology for CAPE® Examinations provide a comprehensive coverage of the CAPE® Biology syllabus. Written by highly experienced, internationally bestselling authors Mary and Geoff Jones and CAPE® Biology teacher and examiner Myda Ramesar, both books are in full colour and written in an accessible style. Learning objectives are presented at the beginning of each chapter, and to assist students preparing for the examination, each chapter is followed by questions in the style they will encounter on their examination papers.

Translational Insights Into Pancreatic Ductal Adenocarcinoma Peter Bailey 2022-04-26

The Role of Matrix Metalloproteinase in Human Body Pathologies Francesco Travascio 2017-12-20 Matrix metalloproteinases (MMPs) are a family of proteolytic zinc-containing enzymes involved in physiological as well as in pathological processes in the human organism. MMPs play a key role in the remodeling of the extracellular matrix. Such a process may occur because of tissue homeostasis, morphogenesis, and tissue repair. However, remodeling could also be a part of many pathological states such as arthritis, cardiovascular diseases, neurodegenerative diseases, or impaired development in congenital anomalies. This book overviews the role of MMPs in different pathologies affecting the human body.

Heparanase Israel Vlodavsky 2020-04-09 Written by internationally recognized leaders in Heparanase biology, the book’s eight chapters offer an opportunity for scientists, clinicians and advanced students in cell biology, tumor biology and oncology to obtain a comprehensive understanding of Heparanase’s multifaceted activities in cancer, inflammation, diabetes and other diseases, as well as its related clinical applications. Proteases and their involvement in cancer progression have been well addressed and documented; however, the emerging premise presented within this book is that Heparanase is a master regulator of aggressive cancer phenotypes and crosstalk with the tumor microenvironment. This endoglycosidase contributes to tumor-mediated remodeling of the extracellular matrix and cell surfaces, augmenting the bioavailability of pro-tumorigenic and pro-inflammatory growth factors and cytokines that are bound to Heparan sulfate. Compelling evidence ties Heparanase with all steps of tumor progression including tumor initiation, growth, angiogenesis, metastasis, and chemoresistance, supporting the notion that Heparanase is an important contributor to the poor outcome of cancer patients and a validated target for therapy. Unlike Heparanase, heparanase-2, a close homolog of Heparanase, lacks enzymatic activity, inhibits Heparanase, and regulates selected genes that promote normal differentiation and tumor suppression. Written by internationally recognized leaders in Heparanase biology, this volume presents a comprehensive understanding of Heparanase’s multifaceted activities in cancer, inflammation, diabetes and other diseases, as well as its related clinical applications to scientists, clinicians and advanced students in cell biology, tumor biology and oncology.

Forthcoming Books Rose Arny 2004

Macrocycles in Drug Discovery Jeremy I Levin 2014-10-16 This book reviews macrocycles in drug discovery, both those of natural origin and semi-synthetic derivatives of natural products, and those designed and synthesized based on principles of medicinal chemistry. The medicinal chemistry of macrocyclic natural products is interesting in itself, but lessons learned from these compounds, in terms of the relationship between structure and desirable physicochemical properties, are now informing the design of fully synthetic macrocyclic drug candidates against a variety of targets including kinases, ATPases, proteases, GPCRs and others. Furthermore, as more non-classical drug targets, such as protein-protein interactions, are pursued in the pharmaceutical industry, macrocyclic molecules are generating increasing interest as they offer a way to provide drug-protein interactions that cover a larger surface area than traditional small molecules. A variety of macrocycles have become important drugs or have been identified as leads to marketed drugs. This text will discuss these compounds, their pharmacology and synthesis, in the context of their broad chemotype as compounds composed of large rings. Providing a wide reaching review of this important area in a single volume, this book will be of interest to biochemists, pharmaceutical scientists and medicinal chemists working in industry or academia.

Genetics and Molecular Biology Robert F. Schleif 1993 In the first edition of Genetics and Molecular Biology, renowned researcher and award-winning teacher Robert Schleif produced a unique and stimulating text that was a notable departure from the standard compendia of facts and observations. Schleif's strategy was to present the underlying fundamental concepts of molecular biology with clear explanations and critical analysis of well-chosen experiments. The result was a concise and practical approach that offered students a real understanding of the subject. This second edition retains that valuable approach--with material thoroughly updated to include an integrated treatment of prokaryotic and eukaryotic molecular biology. Genetics and Molecular Biology is copiously illustrated with two-color line art. Each chapter includes an extensive list of important references to the primary literature, as well as many innovative and thought-provoking problems on material covered in the text or on related topics. These help focus the student's attention of a variety of critical issues. Solutions are provided for half of the problems. Praise for the first edition: "Schleif's Genetics and Molecular Biology... is a remarkable achievement. It is an advanced text, derived from material taught largely to postgraduates, and will probably be thought best suited to budding professionals in molecular genetics. In some ways this would be a pity, because there is also gold here for the rest of us... The lessons here in dealing with the information explosion in biology are that an ounce of rationale is worth a pound of facts and that, for educational value, there is nothing to beat an author writing about stuff he knows from theinside."--Nature. "Schleif presents a quantitative, chemically rigorous approach to analyzing problems in molecular biology. The text is unique and clearly superior to any currently available."--R.L. Bernstein, San Francisco State University. "The greatest strength is the author's ability to challenge the student to become involved and get below the surface."--Clifford Brunk, UCLA

Who's Who in Science and Engineering 2008-2009 Marquis Who's Who, Inc. 2007-12

Photoproteins in Bioanalysis Sylvia Daunert 2006-12-13 The use of light-emitting proteins for the detection of biomolecules provides fast and sensitive methods which overcome the disadvantages of radioactive labels and the high cost of fluorescent dyes. This reference work summarizes modern advanced techniques and their applications and includes practical examples of assays based on photoproteins. The book presents contemporary key topics like luminescent marine organisms, DNA probes, reporter gene assays and photoproteins, ratiometric sensing, use of photoproteins for in vivo functional imaging and luminescent proteins in binding assays, to name just a few, and is complemented by recent advances in instrumentation. Includes an introductory chapter by 2008 Chemistry Nobel laureate Osamu Shimomura.

Microsoft Office 365 Administration Inside Out (Includes Current Book Service) Darryl Kegg 2017-11-20 Conquer Microsoft Office 365 Administration–from the inside out! Dive into Microsoft Office 365 Administration–and really put your Office 365 expertise to work. This supremely organized reference packs hundreds of timesaving solutions, tips, and workarounds–all you need to plan, implement, and operate Microsoft Office 365 in any environment. In this completely revamped Second Edition, a new author team thoroughly reviews the administration tools and capabilities available in the latest versions of Microsoft Office 365, and also adds extensive new coverage of Azure cloud services and SharePoint. Discover how experts tackle today’s essential tasks–and challenge yourself to new levels of mastery. • Install, customize, and use Office 365’s portal, dashboard, and admin centers • Make optimal decisions about tenancy, licensing, infrastructure, and hybrid options • Prepare your environment for the cloud • Manage Office 365 identity and access via federation services, password and directory synchronization, authentication, and AAD Connect • Implement alerts and threat management in the Security & Compliance Center • Establish

Office 365 data classifications, loss prevention plans, and governance • Prepare your on-premises environment to connect with Exchange Online • Manage resource types, billing and licensing, service health reporting, and support • Move mailboxes to Exchange Online via cutover, staged, and express migrations • Establish hybrid environments with the Office 365 Hybrid Configuration Wizard • Administer Exchange Online, from recipients and transport to malware filtering • Understand, plan, and deploy Skype for Business Online Current Book Service In addition, this book is part of the Current Book Service from Microsoft Press. Books in this program receive periodic updates to address significant software changes for 12 to 18 months following the original publication date via a free Web Edition. Learn more at https://www.microsoftpressstore.com/cbs.

Plant Proteomics Jozef Samaj 2007-09-09 Plant Proteomics highlights rapid progress in this field, with emphasis on recent work in model plant species, sub-cellular organelles, and specific aspects of the plant life cycle such as signaling, reproduction and stress physiology. Several chapters present a detailed look at diverse integrated approaches, including advanced proteomic techniques combined with functional genomics, bioinformatics, metabolomics and molecular cell biology, making this book a valuable resource for a broad spectrum of readers.

Cell-Free Synthetic Biology Seok Hoon Hong 2020-01-07 Cell-free synthetic biology is in the spotlight as a powerful and rapid approach to characterize and engineer natural biological systems. The open nature of cell-free platforms brings an unprecedented level of control and freedom for design compared to in vivo systems. This versatile engineering toolkit is used for debugging biological networks, constructing artificial cells, screening protein library, prototyping genetic circuits, developing new drugs, producing metabolites, and synthesizing complex proteins including therapeutic proteins, toxic proteins, and novel proteins containing non-standard (unnatural) amino acids. The book consists of a series of reviews, protocols, benchmarks, and research articles describing the current development and applications of cell-free synthetic biology in diverse areas.

Traumatic Brain and Spinal Cord Injury Cristina Morganti-Kossmann 2012-07-19 Traumatic Brain and Spinal Cord Injury comprehensively covers the medical and pathological issues related to neurotrauma and its often devastating consequences. Written by globally renowned experts in the field, both clinicians and researchers will find this book invaluable to update their knowledge. This volume is divided into two sections, one covering the brain, the other the spinal cord. Each section discusses the following topics: • The demographic in the developed and developing world where neurotrauma is witnessing a massive expansion • Major clinical issues including advanced semi-experimental monitoring techniques utilized by neurosurgeons and intensivists and the potential use of identifying markers of tissue injury • Overview of major pathophysiological changes • The development of animal models; successes and limitations • Past, current and future therapeutic strategies including rehabilitative opportunities. Presenting the most up-to-date clinical and experimental research in neurotrauma, this volume is essential reading for neurologists, neurosurgeons, intensive care physicians and rehabilitative physicians.

Weight Management Hubertus Himmerich 2020-09-09 Weight management is a multi- and cross-disciplinary challenge. This book covers many etiological and diagnostic aspects of weight-related disorders and their treatment. This book explains how body weight influences and is influenced by the brain, hormones and immune system, diet, physical activity, posture and gait, and the social environment. This book also elucidates the health consequences of significantly low or pathologically increased body weight. Furthermore, ideas on how to influence and manage body weight including anti-obesity medical devices, diet counselling, artificial sweeteners, prebiotics and probiotics, proanthocyanidins, bariatric surgery, microbiota transplantation, warming, physical exercise, music and psychological therapy are discussed.

Advanced Biology Michael Kent 2000-07-06 Written by an experienced author and teacher of students with a wide range of abilities, Advanced Biology will spark interest and motivate A-Level students.

Herbal Medicine Iris F. F. Benzie 2011-03-28 The global popularity of herbal supplements and the promise they hold in treating various disease states has caused an unprecedented interest in understanding the molecular basis of the biological activity of traditional remedies. Herbal Medicine: Biomolecular and Clinical Aspects focuses on presenting current scientific evidence of biomolecular ef

Inflammation and Cancer Bharat B. Aggarwal 2014-05-12 This volume examines in detail the role of chronic inflammatory processes in the development of several types of cancer. Leading experts describe the latest results of molecular and cellular research on infection, cancer-related inflammation and tumorigenesis. Further, the clinical significance of these findings in preventing cancer progression and approaches to treating the diseases are discussed. Individual chapters cover cancer of the lung, colon, breast, brain, head and neck, pancreas, prostate, bladder, kidney, liver, cervix and skin as well as gastric cancer, sarcoma, lymphoma, leukemia and multiple myeloma.

Click Reactions in Organic Synthesis Srinivasan Chandrasekaran 2016-06-22 This book on click reactions to focus on organic synthesis, this reference work describes the click concept and underlying mechanisms as well as the main applications in various fields. As such, the chapters cover green chemical synthesis, metal-free click reactions, synthesis of pharmaceuticals, peptides, carbohydrates, DNA, macrocycles, dendrimers, polymers, and supramolecular architectures. By filling a gap in the market, this is the ultimate reference for synthetic chemists in academia and industry aiming for a fast and simple design and synthesis of novel compounds with useful properties.

CSEC Biology Anne Tindale 2017-02-23 This Collins CSEC Biology MCQ Practice book is a valuable exam preparation aid for CSEC Biology students. It provides excellent practice for the multiple choice questions from Paper 1 of the CSEC examination, and has been specially written to help CSEC Biology students improve their Paper 1 exam score. This Collins CSEC Biology MCQ Practice book is a valuable exam preparation aid for CSEC Biology students. It provides excellent practice for the multiple choice questions from Paper 1 of the CSEC examination, and has been specially written to help CSEC Biology students improve their Paper 1 exam score.

Pertussis Pejman Rohani 2018-12-06 Pertussis, or whooping cough, is a respiratory disease caused primarily by infection with the bacterium Bordetella pertussis. It remains among the leading causes of death amongst vaccine-preventable diseases worldwide and recent years have seen its alarming re-emergence in many regions (including the U.S. and much of Europe), despite sustained high levels of vaccine coverage. The causes of the resurgence remain contentious, in part due to inherent complexities of the pathogen's biology, in part due to pronounced variation in the treatment and prevention strategies between different countries and regions, and in part due to long-standing disagreement amongst scientific researchers studying pertussis. This edited volume brings together expert knowledge from disparate fields with the overall aim of synthesizing the current understanding of this critically important, global pathogen.

Human and Social Biology 2008

Human and Social Biology for Caribbean Schools Ron Pickering 2006 Intended for the students following the Human and Social Biology syllabus for CXC (CSEC). This illustrated work contains explanations on all topics and includes Caribbean examples. It is a useful resource for the students of this subject.