

Principles Molecular Biology Burton Tropp

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Multiple Representations in Biological Education - David F.

Treagust 2013-02-01

This new publication in the Models and Modeling in Science Education series synthesizes a wealth of international research on using multiple representations in biology education and aims for a coherent framework in using them to improve higher-order learning. Addressing a major gap in the literature, the volume proposes a theoretical model for advancing biology educators' notions of how multiple external representations (MERs) such as analogies, metaphors and visualizations can best be harnessed for improving teaching and learning in biology at all pedagogical levels. The content tackles the conceptual and linguistic difficulties of learning biology at each level—macro, micro, sub-micro, and symbolic, illustrating how MERs can be used in teaching across these levels and in various combinations, as well as in differing contexts and topic areas. The strategies outlined will help students' reasoning and problem-solving skills, enhance their ability to construct mental models and internal representations, and, ultimately, will assist in increasing public understanding of biology-related issues, a key goal in today's

world of pressing concerns over societal problems about food, environment, energy, and health. The book concludes by highlighting important aspects of research in biological education in the post-genomic, information age.

Principles of Molecular Biology - Burton E. Tropp 2012-12-14

Includes access to the Student Companion Website with every print copy of the text. Written for the more concise course, Principles of Molecular Biology is modeled after Burton Tropp's successful Molecular Biology: Genes to Proteins and is appropriate for the sophomore level course. The author begins with an introduction to molecular biology, discussing what it is and how it relates to applications in "real life" with examples pulled from medicine and industry. An overview of protein structure and function follows, and from there the text covers the various roles of technology in elucidating the central concepts of molecular biology, from both a historical and contemporary perspective. Tropp then delves into the heart of the book with chapters focused on chromosomes, genetics, replication, DNA damage and repair, recombination, transposition, transcription, and wraps up with translation. Key Features:- Presents

molecular biology from a biochemical perspective, utilizing model systems, as they best describe the processes being discussed-Special Topic boxes throughout focus on applications in medicine and technology-Presents "real world" applications of molecular biology that are necessary for students continuing on to medical school or the biotech industry-An end-of-chapter study guide includes questions for review and discussion-Difficult or complicated concepts are called-out in boxes to further explain and simplify

Molecular Biology - Nancy Craig 2014-05

'Molecular Biology' offers a fresh, distinctive approach to the study of molecular biology. With its focus on key principles, its emphasis on the commonalities that exist between the three kingdoms of life, and its integrated approach throughout, it is the perfect companion to any molecular biology course.

Mammalogy - Terry A. Vaughan 2013-12-11

Mammalogy is the study of mammals from the diverse biological viewpoints of structure, function, evolutionary history, behavior, ecology, classification, and economics. Thoroughly updated, the Sixth Edition of Mammalogy explains and clarifies the subject as a unified whole. The text begins by defining mammals and summarizing their origins. It moves on to discuss the orders and families of mammals with comprehensive coverage on the fossil history, current distribution, morphological characteristics, and basic behavior and ecology of each family of mammals. The third part of the text progresses to discuss special topics such as mammalian echolocation, physiology, behavior, ecology, and zoogeography. The text concludes with two additional chapters, previously available online, that cover mammalian domestication and mammalian disease and zoonoses.

Fundamentals of Enzymology - Jo Phillips 2019-07-04

Strickberger's Evolution - Brian Keith Hall 2014

Now with a new full color design and art program, the Fifth Edition of Strickberger's Evolution is updated with the latest data and updates from the field. The authors took care to carefully modify the chapter order in

an effort to provide a more clear and student-friendly presentation of course material. The original scope and theme of this popular text remains, as it continues to present an overview of prevailing evidence and theories about evolution by discussing how the world and its organisms arose and changed over time. New boxed features concentrating on modern and exciting research in the field are included throughout the text. New and Key Features of the Fifth Edition- New Full color design and art program- Maintains the student-friendly engaging writing-style for which it is known- A reorganized chapter order provides a more clear and accessible presentation of course material.- Chapters on the evolution of biodiversity are now found on the text's website.- Access to the companion website is included with every new copy of the text.- New boxed features highlight new and exciting research in the field.

The Age of Sustainability - Mark Swilling 2019-11-06

With transitions to more sustainable ways of living already underway, this book examines how we understand the underlying dynamics of the transitions that are unfolding. Without this understanding, we enter the future in a state of informed bewilderment. Every day we are bombarded by reports about ecosystem breakdown, social conflict, economic stagnation and a crisis of identity. There is mounting evidence that deeper transitions are underway that suggest we may be entering another period of great transformation equal in significance to the agricultural revolution some 13,000 years ago or the Industrial Revolution 250 years ago. This book helps readers make sense of our global crisis and the dynamics of transition that could result in a shift from the industrial epoch that we live in now to a more sustainable and equitable age. The global renewable energy transition that is already underway holds the key to the wider just transition. However, the evolutionary potential of the present also manifests in the mushrooming of ecocultures, new urban visions, sustainability-oriented developmental states and new ways of learning and researching. Shedding light on the highly complex challenge of a sustainable and just transition, this book is essential reading for anyone concerned with establishing a more

sustainable and equitable world. Ultimately, this is a book about hope but without easy answers.

Human Biology - Daniel D. Chiras 2013

Human Physiology - Dee Unglaub Silverthorn 2015

For courses in Human Physiology An Integrated Science Needs an Integrated Approach Human Physiology: An Integrated Approach broke ground with its thorough coverage of molecular physiology seamlessly integrated into a traditional homeostasis-based systems approach. MasteringA & P® is not included. Students, if MasteringA & P is a recommended/mandatory component of the course, please ask your instructor for the correct ISBN. MasteringA & P should only be purchased when required by an instructor. Instructors, contact your Pearson representative for more information.

Outdoor Air Pollution - International Agency for Research on Cancer 2016-07-05

This volume of the IARC Monographs series provides an evaluation of the carcinogenicity of outdoor air pollution. Outdoor air pollution is a complex mixture of pollutants originating from natural and anthropogenic sources, including transportation, power generation, industrial activity, biomass burning, and domestic heating and cooking. The mix of pollutants in outdoor air varies widely in space and time, reflecting the diversity of sources and the influence of atmospheric processes. Commonly measured air pollutants include particulate matter (PM_{2.5}, PM₁₀), nitrogen dioxide, and sulfur dioxide; the concentration of particulate matter is often used as an indicator of pollution levels. Millions of people worldwide are exposed to outdoor air pollution at levels that substantially exceed existing health-based guidelines. This evaluation is the culmination of a series that has examined individual pollutants that are contained in the mixture of outdoor air. Related previous evaluations have been published in IARC Monographs Volumes 92, 93, 95, 100C, 100E, 103, and 105. An IARC Monographs Working Group reviewed epidemiological studies, animal cancer bioassays, and mechanistic data to assess the carcinogenic hazards of exposure to

outdoor air pollution and particulate air pollution.

Baking and Pastry - CIA 2009-01-20

Molecular Biology - Burton E. Tropp 2008

Molecular Biology or Molecular Genetics - Biology Department
Biochemical Genetics - Biology or Biochemistry Department
Microbial Genetics - Genetics Department
The book is typically used in a one-semester course that may be taught in the fall or the spring. However, the book contains sufficient information so that it could be used for a full year course. It is appropriate for juniors and seniors or first year graduate students.

Lewin's Genes XI - Jocelyn E. Krebs 2014

Molecular Biology is a rapidly advancing field with a constant flow of new information and cutting-edge developments that impact our lives. Lewin's GENES has long been the essential resource for providing the teaching community with the most modern presentation to this dynamic area of study. GENES XI continues this tradition by introducing the most current data from the field, covering gene structure, sequencing, organization, and expression. It has enlisted a wealth of subject-matter experts, from top institutions, to provide content updates and revisions in their individual areas of study. A reorganized chapter presentation provides a clear, more student-friendly introduction to course material than ever before. - Updated content throughout to keep pace with this fast-paced field.- Reorganized chapter presentation provides a clear, student-friendly introduction to course material.- Expanded coverage describing the connection between replication and the cell cycle is included, and presents eukaryotes as well as prokaryotes.- Available with new online Molecular Biology Animations.- Online access code for the companion website is included with every new book. The companion website offers numerous study aids and learning tools to help students get the most out of their course.- Instructor's supplements include: PowerPoint Image Bank, PowerPoint Lecture Slides, and Test Bank.
Ergonomics for Rehabilitation Professionals - Shrawan Kumar 2009-04-27

Despite the apparently distinct differences between the disciplines of ergonomics and rehabilitation, they deal with the same issues, although at different ends of the spectrum. Keeping this in mind, *Ergonomics for Rehabilitation Professionals* explores their philosophies and goals, their parallel, divergent, and complementary aspects. It traces the origin of each field and examines the role of ergonomics in rehabilitation. The book begins with a theoretical and conceptual review of ergonomics and its role in rehabilitation. It covers anthropometry and its impact on human biomechanics, allowing readers to grasp complex concepts, visualize what forces are acting where, and understand the consequence of this force. A chapter on tissue mechanics provides an understanding of the effect of the overall load on the tissues and a rationale for possible mechanisms of injury that can be used to design prevention and treatment methods. The book explores the relevant physiological issues, looking at the energy cost of activities and the data on strength and endurance. It discusses whole body biomechanics using an approach that supplies intuitive understanding of the effects of force, gravity, and physiological variables in an integrated manner. Addressing theoretical underpinnings with scientific rigor, the book covers a broad range of topics, always emphasizing design in rehabilitation. The editor's organization of the material develops concepts in concentric circles with increasing radii, sequencing ideas and exploring them from simple to complex. This selection of topics from two vast and seemingly diverse disciplines provides the tools for setting realistic goals and developing the strategies to achieve them.

Studyguide for Principles of Molecular Biology by Tropp, Burton

E., ISBN 9781449689179 - Cram101 Textbook Reviews 2014-05-22
Never HIGHLIGHT a Book Again! Includes all testable terms, concepts, persons, places, and events. Cram101 Just the FACTS101 studyguides gives all of the outlines, highlights, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanies: 9781449689179. This item is printed on demand.

Clinical Acupuncture - Gabriel Stux 2011-06-28

Acupuncture is rapidly moving out of the arena of "alternative" medicine,

in large part because it is grounded more firmly than other alternative treatments in research. This book provides readers with the up-to-date information on the clinical bases of acupuncture.

Biochemistry - Burton E. Tropp 1997

Essentials of Biochemistry - Alex McDonald & Charlie Bowman
2018-11-21

This book, 'Biochemistry' is special with a concurrent and equivalent accentuation on fundamental and connected parts of biochemistry. This reading material offers a mix of medicinal and unadulterated sciences, completely written to meet the educational modules prerequisites of college classes in restorative, dental, drug store, life-sciences and different classifications (horticulture, veterinary, and so on.). This book is intended to create in understudies a managed premium and excitement to learn and build up the ideas in biochemistry in an intelligent and stepwise way. It joins an assortment of instructive guides, other than shading delineations to enable the understudies to comprehend the subject rapidly and to the greatest. It contains the fundamentals (Bioorganic and Biophysical Chemistry, Tools of Biochemistry, Immunology, and Genetics) for novices to learn effortlessly Biochemistry, roots of biochemical words, confusables in Biochemistry, standards of Practical Biochemistry, and Clinical Biochemistry Laboratory. It gives the latest and fundamental data on Molecular Biology and Biotechnology, Diabetes, Cancer, Free Radicals, Free radicals and Antioxidants, Prostaglandins, and so on.

Organic Chemistry with Biological Topics - Janice Smith 2017-02-08

Smith and Vollmer-Snarr's Organic Chemistry with Biological Topics continues to breathe new life into the organic chemistry world. This new fifth edition retains its popular delivery of organic chemistry content in a student-friendly format. Janice Smith and Heidi Vollmer-Snarr draw on their extensive teaching background to deliver organic chemistry in a way in which students learn: with limited use of text paragraphs, and through concisely written bulleted lists and highly detailed, well-labeled "teaching" illustrations. The fifth edition features a modernized look with

updated chemical structures throughout. Because of the close relationship between chemistry and many biological phenomena, Organic Chemistry with Biological Topics presents an approach to traditional organic chemistry that incorporates the discussion of biological applications that are understood using the fundamentals of organic chemistry. See the New to Organic Chemistry with Biological Topics section for detailed content changes. Don't make your text decision without seeing Organic Chemistry, 5th edition by Janice Gorzynski Smith and Heidi Vollmer-Snarr!

Climate Change Adaptation in Africa - Walter Leal Filho 2017-03-27

This collection showcases experiences from research and field projects in climate change adaptation on the African continent. It includes a set of papers presented at a symposium held in Addis Abeba in February 2016, which brought together international experts to discuss "fostering African resilience and capacity to adapt." The papers introduce a wide range of methodological approaches and practical case studies to show how climate change adaptation can be implemented in regions and countries across the continent. Responding to the need for more cross-sectoral interaction among the various stakeholders working in the field of climate change adaptation, the book fosters the exchange of information on best practices across the African continent.

The Politics of Species - Raymond Corbey 2013

"The assumption that humans are cognitively and morally superior to other animals is fundamental to social democracies and legal systems worldwide. It legitimises treating members of other animal species as inferior to humans. The last few decades have seen a growing awareness of this issue, as evidence continues to show that individuals of many other species have rich mental, emotional and social lives. Bringing together leading experts from a range of disciplines, this volume identifies the key barriers to a definition of moral respect that includes nonhuman animals. It sets out to increase concern, empathy and inclusiveness by developing strategies that can be used to protect other animals from exploitation in the wild and from suffering in captivity. The chapters link scientific data with normative and philosophical reflections,

offering unique insight into controversial issues around the ethical, political and legal status of other species"--

Alcama's Fundamentals of Microbiology - Jeffrey C Pommerville 2010-03-08

The ninth edition of award-winning author Jeffrey Pommerville's classic text provides nursing and allied health students with a firm foundation in microbiology, with an emphasis on human disease. An educator himself, Dr. Pommerville incorporates accessible, engaging pedagogical elements and student-friendly ancillaries to help students maximize their understanding and retention of key concepts. Ideal for the non-major, the ninth edition includes numerous updates and additions, including the latest disease data and statistics, new material on emerging disease outbreaks, an expanded use of concept maps, and many other pedagogical features. With an inviting Learning Design format and Study Smart notes to students, Alcama's Fundamentals of Microbiology, Ninth Edition ensures student success as they delve into the exciting world of microbiology.

Antarcticness - Ilan Kelman 2022

Children's Health, the Nation's Wealth - Institute of Medicine 2004-11-18

Children's health has clearly improved over the past several decades. Significant and positive gains have been made in lowering rates of infant mortality and morbidity from infectious diseases and accidental causes, improved access to health care, and reduction in the effects of environmental contaminants such as lead. Yet major questions still remain about how to assess the status of children's health, what factors should be monitored, and the appropriate measurement tools that should be used. Children's Health, the Nation's Wealth: Assessing and Improving Child Health provides a detailed examination of the information about children's health that is needed to help policy makers and program providers at the federal, state, and local levels. In order to improve children's health-and, thus, the health of future generations-it is critical to have data that can be used to assess both current conditions and possible future threats to children's health. This compelling book

describes what is known about the health of children and what is needed to expand the knowledge. By strategically improving the health of children, we ensure healthier future generations to come.

In Frankenstein's Shadow - Chris Baldick 1990

This book surveys the early history of one of our most important modern myths: the story of Frankenstein and the monster he created from dismembered corpses, as it appeared in fictional and other writings before its translation to the cinema screen. It examines the range of meanings which Mary Shelley's Frankenstein offers in the light of the political images of 'monstrosity' generated by the French Revolution. Later chapters trace the myth's analogues and protean transformations in subsequent writings, from the tales of Hoffmann and Hawthorne to the novels of Dickens, Melville, Conrad, and Lawrence, taking in the historical and political writings of Carlyle and Marx as well as the science fiction of Stevenson and Wells. The author shows that while the myth did come to be applied metaphorically to technological development, its most powerful associations have centred on relationships between people, in the family, in work, and in politics.

The Molecules of Life - Kuriyan, John 2012-07-25

This textbook provides an integrated physical and biochemical foundation for undergraduate students majoring in biology or health sciences. It is particularly suitable for students planning to enter the pharmaceutical industry. This new generation of molecular biologists and biochemists will harness the tools and insights of physics and chemistry to exploit the emergence of genomics and systems-level information in biology, and will shape the future of medicine.

The Transgender Exigency - Edward Schiappa 2021-11

"At no other point in human history have the definitions of "woman" and "man," "male" and "female," "masculine" and "feminine," been more contentious than now. This book advances a pragmatic approach to the act of defining that acknowledges the important ethical dimensions of our definitional practices. Increased transgender rights and visibility has been met with increased opposition, controversy, and even violence. Who should have the power to define the meanings of sex and gender? What

values and interests are advanced by competing definitions? Should an all-boys' college or high school allow transgender boys to apply? Should transgender women be allowed to use the women's bathroom? How has growing recognition of intersex conditions challenged our definitions of sex/gender? In this timely intervention, Edward Schiappa examines the key sites of debate and including schools, bathrooms, the military, sports, prisons, and feminism, drawing attention to the political, practical, and ethical dimensions of the act of defining itself. This is an important text for students and scholars in gender studies, philosophy, communication, and sociology"--

Lewin's CELLS - George Plopper 2013-12-02

Ideal text for undergraduate and graduate students in advanced cell biology courses Extraordinary technological advances in the last century have fundamentally altered the way we ask questions about biology, and undergraduate and graduate students must have the necessary tools to investigate the world of the cell. The ideal text for students in advanced cell biology courses, Lewin's CELLS, Third Edition continues to offer a comprehensive, rigorous overview of the structure, organization, growth, regulation, movements, and interactions of cells, with an emphasis on eukaryotic cells. The text provides students with a solid grounding in the concepts and mechanisms underlying cell structure and function, and will leave them with a firm foundation in cell biology as well as a "big picture" view of the world of the cell. Revised and updated to reflect the most recent research in cell biology, Lewin's CELLS, Third Edition includes expanded chapters on Nuclear Structure and Transport, Chromatin and Chromosomes, Apoptosis, Principles of Cell Signaling, The Extracellular Matrix and Cell Adhesion, Plant Cell Biology, and more. All-new design features and a chapter-by-chapter emphasis on key concepts enhance pedagogy and emphasize retention and application of new skills. Thorough, accessible, and essential, Lewin's CELLS, Third Edition, turns a new and sharper lens on the fundamental units of life [Standard Methods for the Examination of Water and Wastewater](#) -

Phoenix Chambers 2019-06-07

Because of expanding interest for consumable and water system water,

water providers need to utilize elective assets. They either need to recover wastewater or manage sullied surface water. This book unites the encounters of different specialists in getting ready of creative materials that are specific for arsenic and chromium expulsion, and developing some imaginative procedures to separate these components from water. The book ought to be of high enthusiasm to designers and chiefs in charge of generation and conveyance of safe water. They examined the logical ideas and commonsense means for the arrangement of the perplexing social, financial and biological issues related with water cleansing, utilization, preservation, and security. The book is the principal ever logical work routed to two most unsafe components showing up in water and gives a thorough survey of materials and strategies valuable for making the water safe. The book talks about in detail the different creation systems for sorbents and layers that are presently financially accessible or show up in the advancement arrange and will be popularized in the following decades.

Neural Networks and Statistical Learning - Ke-Lin Du 2019-09-12

This book provides a broad yet detailed introduction to neural networks and machine learning in a statistical framework. A single, comprehensive resource for study and further research, it explores the major popular neural network models and statistical learning approaches with examples and exercises and allows readers to gain a practical working understanding of the content. This updated new edition presents recently published results and includes six new chapters that correspond to the recent advances in computational learning theory, sparse coding, deep learning, big data and cloud computing. Each chapter features state-of-the-art descriptions and significant research findings. The topics covered include: • multilayer perceptron; • the Hopfield network; • associative memory models; • clustering models and algorithms; • the radial basis function network; • recurrent neural networks; • nonnegative matrix factorization; • independent component analysis; • probabilistic and Bayesian networks; and • fuzzy sets and logic. Focusing on the prominent accomplishments and their practical aspects, this book provides academic and technical staff, as well as graduate students and

researchers with a solid foundation and comprehensive reference on the fields of neural networks, pattern recognition, signal processing, and machine learning.

Food Microbiology - Addison Solis 2018-06-16

Food microbiology is a branch of applied microbiology and the scope of food microbiology is expanding rapidly to protect food from microbial spoilage and provide safe, nutritious food to consumers. We now live in a period of world-wide food crisis, a food saved is a food produced. Food Microbiology explores the fundamental elements affecting the presence, activity, and control of microorganisms in food. The subject also includes the key concepts required to meet the minimum standards for degrees in food science with a wealth of practical information about the most essential factors and principles that affect microorganisms in food. Food microbiology is mainly concern with production of food, beverages, cheese, yogurt, tempeh, kimchi, beer, and wine, etc. with the use of microbes. As most people are aware, microbes can also cause food spoilage. This area of food microbiology is of major economic importance. Microbiology is the science which includes the study of the occurrence and significance of bacteria, fungi, protozoa and algae which are the beginning and ending of intricate food chains upon which all life depends. These food chains begin wherever photosynthetic organisms can trap light energy and use it to synthesize large molecules from carbon dioxide, water and mineral salts forming the proteins, fats and carbohydrates which all other living creatures use for food. Within and on the bodies of all living creatures, as well as in soil and water, microorganisms build up and change molecules, extracting energy and growth substances. Today food microbiology has become an interesting and challenging subject. The present book covers important main aspects of interaction between microorganisms, food borne illnesses and food fermentations.

Molecular Biology of RNA - David Elliott 2017-01-31

RNA plays a central, and until recently, somewhat underestimated role in the genetics underlying all forms of life on earth. This versatile molecule not only plays a crucial part in the synthesis of proteins from a DNA

template, but is also intrinsically involved in the regulation of gene expression, and can even act as a catalyst in the form of a ribozyme. This latter property has led to the hypothesis that RNA - rather than DNA - could have played an essential part in the origin of life itself. This landmark text provides a systematic overview of the exciting and rapidly moving field of RNA biology. Key pioneering experiments, which provided the underlying evidence for what we now know, are described throughout, while the relevance of the subject to human disease is highlighted via frequent boxes. For the second edition of *Molecular Biology of RNA*, more introductory material has been incorporated at the beginning of the text, to aid students studying the subject for the first time. Throughout the text, new material has been included - particularly in relation to RNA binding domains, non-coding RNAs, and the connection between RNA biology and epigenetics. Finally, a new closing chapter discusses how exciting new technologies are being used to explore current topical areas of research.

Contemporary Sport, Leisure and Ergonomics - Thomas Reilly
2009-03-24

Understanding the 'human operator' is a central concern of both ergonomists and sport and exercise scientists. This cutting-edge collection of international research papers explores the interface between physical, cognitive and occupational ergonomics and sport and exercise science, illuminating our understanding of 'human factors' at work and at play. Drawing on a wide diversity of disciplines, including applied anatomy, biomechanics, physiology, engineering, psychology and design, the book explores themes of central importance within contemporary ergonomics and sport and exercise science, such as performance, health, environment, technology and special populations. *Contemporary Sport, Leisure and Ergonomics* establishes important methodological connections between the disciplines, advancing the research agenda within each. It is essential reading for all serious ergonomists and human scientists.

Foundations of Computational Mathematics - DeVore Iserles Suli
2001-05-17

Collection of papers by leading researchers in computational mathematics, suitable for graduate students and researchers.

Molecular Biology - David P. Clark 2009-12-11

Now available with the most current and relevant research from Cell Press, Clark's *Molecular Biology*, Academic Cell Update Edition, gives readers both the concepts and the applications students need to know to fully grasp *Molecular Biology*. Clark introduces basic concepts and then follows with specific applications in research today. This book is further enhanced by its inclusion in the Academic Cell collaboration, providing it with links to current and recently published research. *Molecular Biology* draws in the applications from a number of fields including human cellular research, human medicine, agriculture research and veterinary medicine. *Now with an online study guide with the most current, relevant research from Cell Press *Full supplements including test bank, powerpoint and online self quizzing *Up to date description of genetic engineering, genomics, and related areas * Basic concepts followed by more detailed, specific applications * Hundreds of color illustrations enhance key topics and concepts * Covers medical, agricultural, and social aspects of molecular biology * Organized pedagogy includes running glossaries and keynotes (mini-summaries) to hasten comprehension

The WEIRDest People in the World - Joseph Henrich 2020-09-08
A New York Times Notable Book of 2020 A Bloomberg Best Non-Fiction Book of 2020 A Behavioral Scientist Notable Book of 2020 A Human Behavior & Evolution Society Must-Read Popular Evolution Book of 2020 A bold, epic account of how the co-evolution of psychology and culture created the peculiar Western mind that has profoundly shaped the modern world. Perhaps you are WEIRD: raised in a society that is Western, Educated, Industrialized, Rich, and Democratic. If so, you're rather psychologically peculiar. Unlike much of the world today, and most people who have ever lived, WEIRD people are highly individualistic, self-obsessed, control-oriented, nonconformist, and analytical. They focus on themselves—their attributes, accomplishments, and aspirations—over their relationships and social roles. How did

WEIRD populations become so psychologically distinct? What role did these psychological differences play in the industrial revolution and the global expansion of Europe during the last few centuries? In *The WEIRDest People in the World*, Joseph Henrich draws on cutting-edge research in anthropology, psychology, economics, and evolutionary biology to explore these questions and more. He illuminates the origins and evolution of family structures, marriage, and religion, and the profound impact these cultural transformations had on human psychology. Mapping these shifts through ancient history and late antiquity, Henrich reveals that the most fundamental institutions of kinship and marriage changed dramatically under pressure from the Roman Catholic Church. It was these changes that gave rise to the WEIRD psychology that would coevolve with impersonal markets, occupational specialization, and free competition—laying the foundation for the modern world. Provocative and engaging in both its broad scope and its surprising details, *The WEIRDest People in the World* explores how culture, institutions, and psychology shape one another, and explains what this means for both our most personal sense of who we are as individuals and also the large-scale social, political, and economic forces that drive human history. Includes black-and-white illustrations.

[Exploring Bioinformatics](#) - Lee Mercado 2019-05-01

Exploring Bioinformatics is a concise yet comprehensive textbook of bioinformatics that provides a broad introduction to the entire field. Written specifically for a life science audience, the basics of bioinformatics are explained, followed by discussions of the state-of-the-art computational tools available to solve biological research problems. All key areas of bioinformatics are covered including biological databases, sequence alignment, gene and promoter prediction, molecular phylogenetics, structural bioinformatics, genomics, and proteomics. The book emphasizes how computational methods work and compares the strengths and weaknesses of different methods. This balanced yet easily accessible text will be invaluable to students who do not have sophisticated computational backgrounds. Technical details of computational algorithms are explained with a minimum use of

mathematical formulas; graphical illustrations are used in their place to aid understanding. The effective synthesis of existing literature as well as in-depth and up-to-date coverage of all key topics in bioinformatics make this an ideal textbook for all bioinformatics courses taken by life science students and for researchers wishing to develop their knowledge of bioinformatics to facilitate their own research.

Fundamentals of Microbiology - Jeffrey C. Pommerville 2014

Every new copy of the print book includes access code to Student Companion Website! The Tenth Edition of Jeffrey Pommerville's best-selling, award-winning classic text *Fundamentals of Microbiology* provides nursing and allied health students with a firm foundation in microbiology. Updated to reflect the Curriculum Guidelines for Undergraduate Microbiology as recommended by the American Society of Microbiology, the fully revised tenth edition includes all-new pedagogical features and the most current research data. This edition incorporates updates on infectious disease and the human microbiome, a revised discussion of the immune system, and an expanded Learning Design Concept feature that challenges students to develop critical-thinking skills. Accessible enough for introductory students and comprehensive enough for more advanced learners, *Fundamentals of Microbiology* encourages students to synthesize information, think deeply, and develop a broad toolset for analysis and research. Real-life examples, actual published experiments, and engaging figures and tables ensure student success. The text's design allows students to self-evaluate and build a solid platform of investigative skills. Enjoyable, lively, and challenging, *Fundamentals of Microbiology* is an essential text for students in the health sciences. New to the fully revised and updated Tenth Edition: -New Investigating the Microbial World feature in each chapter encourages students to participate in the scientific investigation process and challenges them to apply the process of science and quantitative reasoning through related actual experiments. -All-new or updated discussions of the human microbiome, infectious diseases, the immune system, and evolution -Redesigned and updated figures and tables increase clarity and student understanding -Includes new and

revised critical thinking exercises included in the end-of-chapter material-Incorporates updated and new MicroFocus and MicroInquiry boxes, and Textbook Cases-The Companion Website includes a wealth of study aids and learning tools, including new interactive animations**Companion Website access is not included with ebook offerings.

Technical Communication Strategies for Today, Global Edition - Richard Johnson-Sheehan 2015-02-27

For introductory courses in Technical Communication. Technical Communication Strategies for Today offers both and speaks to today's students. Instructional narrative is "chunked," so that portions of text are combined with graphics. The chunked presentation also integrates an awareness of how documents are read—often skimmed by readers seeking the information they need, and it models the way today's technical documents should be designed. The contemporary writing style is matched by an approach that accurately reflects the modern day computer-centered technical workplace: Technical Communication Strategies for Today presents computers as thinking tools that powerfully influence how we develop, produce, design, and deliver technical documents and presentations. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products

whilst you have your Bookshelf installed.

The Microbial Challenge - Robert I. Krasner 2014

Microbes play a highly significant role in our daily lives as agents of infectious disease and are a major public health concern. The third edition of *The Microbial Challenge: A Public Health Perspective* addresses this topic and has been extensively revised and updated with the latest data in a fast-paced field. It focuses on human-microbe interactions and considers bacterial, viral, prion, protozoan, fungal and helminthic (worm) diseases. A chapter on beneficial aspects of microbes makes it clear that not all microbes are disease producers and that microbes are necessary for the sustenance of life on Earth. The response of the immune system, concepts of epidemiology, and measures of control from the individual to the international level to thwart potentially life-threatening epidemics are described. Sections on fungi and fungal diseases are new. The third edition includes new and contemporary information on vaccinations, antibiotic resistant microbes, practical disinfection information, virotherapy and emerging diseases. New boxes throughout the text feature items of human interest such as big and bizarre viruses, probiotics, rats, and synthetic biology. Ancillary instructor and student resources have been updated and expanded including the end of the chapter Self Evaluations. New and Key Features of the Third Edition: -New end-of-chapter questions included in every chapter. -A wealth of new feature boxes add a real-world perspective to the topics at hand. -New data on virotherapy and prions as infectious agents -New and updated statistics and data tables included throughout the text -Includes the latest on emerging and reemerging infectious diseases as major health problems