Oxford Mini Biology Life Science Dictionary

Physical Chemistry for the Life Sciences
Francis Crick and James Watson
Single-Molecule Cellular Biophysics
Polymers and Electromagnetic Radiation
Discovery
Issues in Life Sciences—Botany and Plant Biology Research: 2013 Edition
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BIO2010
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The Biology of Small Mammals
A Guinea Pig's History of Biology
Fluorescence Microscopy in Life Sciences
What is Life?
Major Events in the History of Life
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Animal Transgenesis and Cloning
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Issues in Biological and Life Sciences Research:

2013 Edition
Introduction to Instrumentation in Life Sciences
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Fundamentals of RNA Structure and Function
BIOLOGICAL SCIENCE FUNDAMENTALS AND SYSTEMATICS - Volum III
Issues in Biological and Life Sciences Research: 2011 Edition
The Advancement of Science
Animal Physiology and Biochemistry
List of Journals Indexed in Index Medicus
The Natural and the Artefactual
The Biologist's Imagination
A Dictionary of Biology
The Oxford Book of Modern Science Writing
The Biology of Death
Modern Statistics for the Life Sciences
Handbook of the Biology of Aging
Levels of Organization in the Biological Sciences
Crop Responses and Adaptations to Temperature Stress
Life Sciences and Related Fields
The Chemical News

CAMACHO CORDOVA

Physical Chemistry for the Life Sciences

National Academies Press
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Francis Crick and James Watson CRC Press

"Endless forms most beautiful and most wonderful have been, and are being, evolved," Darwin famously concluded The Origin of Species, and for confirmation we look to...the guinea pig? How this curious creature and others as humble (and as fast-breeding) have helped unlock the mystery of inheritance is the unlikely story Jim

Endersby tells in this book. Biology today promises everything from better foods or cures for common diseases to the alarming prospect of redesigning life itself. Looking at the organisms that have made all this possible gives us a new way of understanding how we got here--and perhaps of thinking about where we're going. Instead of a history of which great scientists had which great ideas, this story of passionflowers and hawkweeds, of zebra fish and viruses, offers a bird's (or rodent's) eye view of the work that makes science possible. Mixing the celebrities of genetics, like the fruit fly, with forgotten players such as the evening primrose, the book follows the unfolding history of biological inheritance from Aristotle's search for the "universal, absolute truth of fishiness" to the apparently absurd speculations of eighteenth-century natural philosophers to the spectacular findings of our day--which may prove to be the absurdities of tomorrow. The result is a quirky, enlightening, and thoroughly engaging perspective on the history of heredity and genetics, tracing the slow, uncertain path--complete with entertaining diversions and dead ends--that led us from the ancient world's understanding of inheritance to modern genetics.

Single-Molecule Cellular Biophysics

Lexington Books Animals of this size face different physiological and ecological challenges than larger mammals. Polymers and Electromagnetic Radiation OUP Oxford Scientific philosophers examine the nature and significance of levels of organization, a core structural principle in the biological sciences. This volume examines the idea of levels of organization as a distinct object of investigation, considering its merits as a core organizational principle for the scientific image of the natural world. It approaches levels of organization--roughly, the idea that the natural world is segregated into part-whole relationships of increasing spatiotemporal scale and complexity--in terms of its roles in scientific reasoning as a dynamic, open-ended idea capable of performing multiple overlapping functions in distinct empirical settings. The contributors--scientific philosophers with longstanding ties to the biological sciences--discuss topics including the philosophical and scientific contexts for an inquiry into levels; whether the concept can actually deliver on its organizational promises; the role of levels in the development and evolution of complex systems; conditional independence and downward causation; and the extension of the concept into the

sociocultural realm. Taken together, the contributions embrace the diverse usages of the term as aspects of the big picture of levels of organization. Contributors Jan Baedke, Robert W. Batterman, Daniel S. Brooks, James DiFrisco, Markus I. Eronen, Carl Gillett, Sara Green, James Griesemer, Alan C. Love, Angela Potochnik, Thomas Reydon, Ilya Tëmkin, Jon Umerez, William C. Wimsatt, James Woodward

Discovery National Academies Press

The Handbook of the Biology of Aging, Sixth Edition, provides a comprehensive overview of the latest research findings in the biology of aging. Intended as a summary for researchers, it is also adopted as a high level textbook for graduate and upper level undergraduate courses. The Sixth Edition is 20% larger than the Fifth Edition, with 21 chapters summarizing the latest findings in research on the biology of aging. The content of the work is virtually 100% new. Though a selected few topics are similar to the Fifth Edition, these chapters are authored by new contributors with new information. The majority of the chapters are completely new in both content and authorship. The Sixth Edition places greater emphasis and coverage on competing and complementary theories of aging, broadening the discussion of conceptual issues.

Greater coverage of techniques used to study biological issues of aging include computer modeling, gene profiling, and demographic analyses. Coverage of research on Drosophilia is expanded from one chapter to four. New chapters on mammalian models discuss aging in relation to skeletal muscles, body fat and carbohydrate metabolism, growth hormone, and the human female reproductive system. Additional new chapters summarize exciting research on stem cells and cancer, dietary restriction, and whether age related diseases are an integral part of aging. The Handbook of the Biology of Aging, Sixth Edition is part of the Handbooks on Aging series, including Handbook of the Psychology of Aging and Handbook of Aging and the Social Sciences, also in their 6th editions.

Issues in Life Sciences—Botany and Plant Biology Research: 2013 Edition ScholarlyEditions

Model formulae represent a powerful methodology for describing, discussing, understanding, and performing that large part of statistical tests known as linear statistics. The book aims to put this methodology firmly within the grasp of undergraduates.

Issues in Life Sciences: Molecular Biology: 2011 Edition JHU Press

This first book to cover

the interaction of polymers with radiation from the entire electromagnetic spectrum adopts a multidisciplinary approach to bridge polymer chemistry and physics, photochemistry, photophysics and materials science. The text is equally unique in its scope, devoting equal amounts of attention to the three aspects of synthesis, characterization, and applications. The first part deals with the interaction of polymers with non-ionizing radiation in the frequency-range from sub-terahertz via infrared radiation to visible and ultraviolet light, while the second covers interaction with ionizing radiation from the extreme ultraviolet to ?-ray photons. The result is a systematic overview of how both types of radiation can be used for different polymerization approaches, spectroscopy methods and lithography techniques. Authored by a world-renowned researcher and teacher with over 40 years of experience in the field, this is a highly practical and authoritative guide.

Re-framing Regional Development EOLSS Publications

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2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Biological and Life Sciences Research in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Biological and Life Sciences Research: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.

What Every Science Student Should Know Oxford Paperbacks

Recent advances in single molecule science have presented a new branch of science: single molecule cellular biophysics, combining classical cell biology with cutting-edge single molecule biophysics. This textbook explains the essential elements of this new discipline, from the state-of-the-art single molecule techniques to real-world applications in unravelling the inner

workings of the cell. Every effort has been made to ensure the text can be easily understood by students from both the physical and life sciences. Mathematical derivations are kept to a minimum whilst unnecessary biological terminology is avoided and text boxes provide readers from either background with additional information. 100 end-of-chapter exercises are divided into those aimed at physical sciences students, those aimed at life science students and those that can be tackled by students from both disciplines. The use of case studies and real research examples make this textbook indispensable for undergraduate students entering this exciting field.

BIO2010 Bentham Science Publishers Higher Education is in a state of ferment. People are seriously discussing whether the medieval ideal of the university as being excellent in all areas makes sense today, given the number of universities that we have in the world. Student fees are changing the orientation of students to the system. The high rate of non repayment of fees in the UK is provoking difficult questions about whether the current system of funding makes sense. There are disputes about the ratio of research to teaching, and further discussions about the international delivery of courses.

Biocode Oxford University Press

Issues for 1977-1979 include also Special List journals being indexed in cooperation with other institutions. Citations from these journals appear in other MEDLARS bibliographies and in MEDLING, but not in Index medicus.

The Biology of Small Mammals

ScholarlyEditions

Examine the ways in which various plants respond when exposed to high and low temperatures! The growing demand for food makes breeding for high-yielding crops with built-in resistance against environmental constraints one of the most important challenges for plant breeders today. Crop Responses and Adaptations to Temperature Stress investigates the adaptive mechanisms plants have evolved in response to unfavorable temperature conditions. It describes gene transfer technology and other tolerance improvement techniques that aid in developing stress-tolerant plants. Adverse environmental stress conditions, such as extreme temperatures, affect the productivity of important world food crops by inhibiting plant growth and development. Crop Responses and Adaptations to Temperature Stress provides valuable information on the mechanisms of stress tolerance in plants that encourage growth and enhance yield performance.

Agriculture

professionals, researchers, and plant breeders will benefit from the ideas shared on such topics as: mechanisms of chilling injury and tolerance injury and acclimation of root system functions during chilling temperatures mechanisms of cold acclimation signal transduction under low-temperature stress mechanisms of thermotolerance in crops control of the heat shock response in crop plants the effects of heat stress on cereal yield and quality Crop Responses and Adaptations to Temperature Stress presents detailed discussions on the effects and outcomes of crop exposure to low and high temperatures. The textual information is liberally supplemented with visual representations of field experiment data as well as comprehensive tables and schematic drawings. In addition to a detailed review of current knowledge on the molecular biology of plant responses to temperature stress and an introduction to biotechnological advances in improving crop tolerance, Crop Responses and Adaptations to Temperature Stress suggests avenues for further study and speculates on the implications of such work for the future of food production.

A Guinea Pig's History of Biology

Scientific e-Resources

In 2012, the White House put out a call to increase the number of STEM graduates by one

million. Since then, hundreds of thousands of science students have started down the path toward a STEM career. Yet, of these budding scientists, more than half of all college students planning to study science or medicine leave the field during their academic careers. This guide is the perfect personal mentor for any aspiring scientist. Like an experienced lab partner or frank advisor, the book points out the pitfalls while providing encouragement. Chapters cover the entire college experience, including choosing a major, mastering study skills, doing scientific research, finding a job, and, most important, how to foster and keep a love of science. Fluorescence Microscopy in Life Sciences Cambridge University Press Independent philosopher Lee (recently of the U. of Manchester) attends to the deeper implications of ecologically insensitive technology beyond its polluting effects. Contrasting modern with premodern worldviews provides the context for exploring how new sciences like biotechnology require an expanded environmental ethos encompassing both the biotic and the abiotic. The author considers misconceived the notions of nature as either a work of art or a mere social construct per some postmodern thinking. Annotation copyrighted by Book

News, Inc., Portland, OR

What is Life? Elsevier Fully revised and updated for the seventh edition, this market-leading dictionary is the perfect guide for anyone studying biology, either at school or university. With more than 5,500 clear and concise entries, it provides comprehensive coverage of biology, biophysics, and biochemistry. Over 250 new entries include terms such as Broca's area, comparative genomic hybridization, mirror neuron, and Pandoravirus. Appendices include classifications of the animal and plant kingdoms, the geological time scale, major mass extinctions of species, model organisms and their genomes, Nobel prizewinners, and a new appendix on evolution. Entry-level web links to online resources can be accessed via a companion website.

Major Events in the History of Life Oxford University Press Transgenic methodologies continue to evolve and have dramatically influenced a cross section of disciplines. They are recognized as instrumental in expanding our understanding of gene expression, regulation and function. This book covers the aspects of gene transfer in animals-from molecular methods to whole animal considerations across a host of species. The book starts with an

introduction of what are transgenic animals. Chapter 1 methods and applications related to transgenic application. Chapter 2 describes the Use of Transgenic Animals in Biotechnology as Prospects and Problems. Chapter 3 study about Transgenic Animals in Agriculture. Chapter 4 depicts about the Gene Replacement and Transgenic Animals. This chapter give insight on Specific Sites in Cloned Genes Can Be Altered in Vitro and DNA that can be transferred into Eukaryotic Cells in Various Ways. Chapter 5 discuss about basics of cloning. Chapter 6 tells about the Reproductive Cloning. Chapter 7 tells about the Cloning of Domestic Animals. Chapter 8 depicts about the Surface Epigenetic Reprogramming. Chapters 9 devoted to Animal Health Risks. This chapter focus on the critical biological systems approach to the analysis of clone animal. Chapter 10 describes the development of the Risk Assessment Methodology required for cloning.

The SAGE Encyclopedia of Higher Education Oxford University Press, USA

This classic work is reissued with a new preface by the author. Written for non-scientists the idea is put forward that life on Earth functions as a single organism.

Animal Transgenesis and Cloning Scientific e-Resources

"Everyone dies, and so,

we naturally associate death with the end of an individual life. However, life is much more complicated, and death is actually interwoven into biology at many levels. Normal development and life could not exist without carefully regulated death of certain cells and as one defense against disease. Other cells wear out and die and must be replaced regularly. On a larger scale, death has influenced the direction of entire species. In fact, death has shaped all life through the cycle of life and death, throughout time, and in normal development. It affects our cells, our development, and our life"--

Data Science for Undergraduates

Routledge

This highly illustrated textbook provides an essential overview on RNA architecture and function, it offers insights into the RNA basics and also explains novel RNA technologies, such as CRISPR-Cas and their applications. In addition, the mRNA based vaccine technology, which has long been tested, also before the COVID-19 pandemic, is discussed and students receive a basic understanding of this important medical application. The textbook is written by Prof. Grover in collaboration with her students and has an easily accessible style. The book provides a great tool for young researchers and students in biology, biomedical engineering

or biochemistry, looking for a compact introduction or refresher work on RNA, including the newest findings and technologies. It is an ideal starter to learn about several RNA specific topics and to research them further.

Biology, Computing, and the History of Molecular Sequencing
Macmillan
Peter Atkins and Julio de Paula offer a fully integrated approach to the study of physical chemistry and biology.