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Biochemical Genetics Academic Press

Cactus plants are precious natural resources that provide nutritious food for people and livestock, especially in dryland areas. Originally published in 1995, this extensively revised edition provides fresh insights into the cactus plant's genetic resources, physiological traits, soil preferences and vulnerability to pests. It provides invaluable guidance on managing the resource to support food security and offers tips on how to exploit the plant's culinary qualities.

Cell and Molecular Biology John Wiley & Sons

A unique, holistic approach to understanding fecal bacteria. • Offers a balanced, integrated discussion of fecal bacteria and their presence and ecology in the intestinal tract of mammals, in the environment, and in the food supply. • Covers the use of fecal bacteria to examine and assess water quality to offer protection from illnesses related to swimming in or ingesting contaminated water, in addition to discussing their use in engineering considerations of water quality, modeling, monitoring, and regulations. • Includes perspectives from an internationally recognized group of experts that integrates medicine, public health, environmental, and microbiological topics. • Serves as a resource for microbiologists, clinicians, animal scientists, engineers, environmental scientists, food safety experts, water quality managers, and students.

Master the PCAT Food & Agriculture Org.

Chemical Biology of the Genome provides a comprehensive overview of essential concepts and principles of genomic and epigenomics dynamics as explored through the lens of chemical biology. Key examples and case studies illustrate chemical biology methods for study and analysis of the genome and epigenome, with an emphasis on relevance to physiological and pathophysiological processes and drug discovery. Authors and international leaders in biochemical studies of the genome, Drs. Siddhartha Roy and Tapas Kundu, adopt an integrated, interdisciplinary approach throughout, demonstrating how fast evolving chemical and mass-scale sequencing tools are increasingly used to interpret biochemical processes of the genome. Later sections discuss chemical modifications of the genome, DNA sequence recognition by proteins and gene regulation, GWAS and EpiGWAS studies, 3D architecture of the genome, and functional genome architecture. In-depth, discovery focused chapters examine intervention

in gene networks using SiRNA/ShRNA, miRNA, and anti-miR, small molecule modulation of iPS, drug resistance pathways altered DNA methylation as drug targets, anti-miR as therapeutics, and nanodelivery of drugs. Offers an interdisciplinary discussion of the chemical biology of the genome and epigenome, employing illustrative case studies in both physiological and pathophysiological contexts Supports researchers in employing chemical and mass-scale sequencing approaches to interpret genomic and epigenomic dynamics Highlights innovative pathways and molecular targets for new disease study and drug discovery

Quantitative Biology MDPI

"Microbiology covers the scope and sequence requirements for a single-semester microbiology course for non-majors. The book presents the core concepts of microbiology with a focus on applications for careers in allied health. The pedagogical features of the text make the material interesting and accessible while maintaining the career-application focus and scientific rigor inherent in the subject matter. Microbiology's art program enhances students' understanding of concepts through clear and effective illustrations, diagrams, and photographs. Microbiology is produced through a collaborative publishing agreement between OpenStax and the American Society for Microbiology Press. The book aligns with the curriculum guidelines of the American Society for Microbiology."--BC Campus website.

A Genetic Switch John Wiley & Sons

Resource added for the Microbiology "10-806-197" courses.

Physics in Molecular Biology CRC Press

Perfect for a single term on Molecular Biology and more accessible to beginning students in the field than its encyclopedic counterparts, Fundamental Molecular Biology provides a distillation of the essential concepts of molecular biology, and is supported by current examples, experimental evidence, an outstanding art program, multimedia support and a solid pedagogical framework. The text has been praised both for its balanced and solid coverage of traditional topics, and for its broad coverage of RNA structure and function, epigenetics and medical molecular biology.

Microbiology Humana

This book is the second edition of Atlas of Oral Microbiology: From Healthy Microflora to Disease (ISBN 978-0-12-802234-4), with two new features: we add about 60 pictures of 14 newly isolated microbes from human dental plaque, at the same time, we re-organize the content of this book and provide more research progress about the oral microbiome bank of China, the invasion of oral microbiota into the gut, and the relationships between Oral Microflora and Human Diseases. This book is keeping up with the advanced edge of the

international research field of oral microbiology. It innovatively gives us a complete description of the oral microbial systems according to different oral ecosystems. It collects a large number of oral microbial pictures, including cultural pictures, colonies photos, and electron microscopy photos. It is by far the most abundant oral microbiology atlas consists of the largest number of pictures. In the meantime, it also described in detail a variety of experimental techniques, including microbiological isolation, culture, and identification. It is an atlas with strong practical function. The editors and writers of this book have long been engaged in teaching and research work in oral microbiology and oral microecology. This book deserves a broad audience, and it will meet the needs of researchers, clinicians, teachers, and students major in biology, dental medicine, basic medicine, or clinical medicine. It can also be used to facilitate teaching and international academic exchanges.

Hurdles for Phage Therapy (PT) to Become a Reality Peterson's

The bestselling landmark account of the first emergence of the Ebola virus. Now a mini-series drama starring Julianna Margulies, Topher Grace, Liam Cunningham, James D'Arcy, and Noah Emmerich on National Geographic. A highly infectious, deadly virus from the central African rain forest suddenly appears in the suburbs of Washington, D.C. There is no cure. In a few days 90 percent of its victims are dead. A secret military SWAT team of soldiers and scientists is mobilized to stop the outbreak of this exotic "hot" virus. The Hot Zone tells this dramatic story, giving a hair-raising account of the appearance of rare and lethal viruses and their "crashes" into the human race. Shocking, frightening, and impossible to ignore, The Hot Zone proves that truth really is scarier than fiction.

Brock Biology of Microorganisms Springer

This book, first published in 2005, is a discussion for advanced physics students of how to use physics to model biological systems.

Proceedings of the National Academy of Sciences of the United States of America BoD – Books on Demand

The foundational textbook on the study of virology Basic Virology, 4th Edition cements this series' position as the leading introductory virology textbook in the world. It's easily read style, outstanding figures, and comprehensive coverage of fundamental topics in virology all account for its immense popularity. This undergraduate-accessible book covers all the foundational topics in virology, including: The basics of virology Virological techniques Molecular biology Pathogenesis of human viral disease The 4th edition includes new information on the SARS, MERS and COVID-19 coronaviruses, hepatitis C virus, influenza virus, as well as HIV and Ebola. New virological techniques including bioinformatics and advances in viral therapies for human disease are also explored in-depth. The book also includes entirely new sections on metapneumoviruses, dengue virus, and the chikungunya virus.

Essential Microbiology Academic Press

Preface INTRODUCTION HISTORY OF MICROBIOLOGY EVOLUTION OF

MICROORGANISM CLASSIFICATION OF MICROORGANISM NOMENCLATURE AND BERGEY'S MANUAL BACTERIA VIRUSES BACTERIAL VIRUSES PLANT VIRUSES THE ANIMAL VIRUSES ARCHAEA MYCOPLASMA PHYTOPLASMA GENERAL ACCOUNT OF CYANOBACTERIA GRAM -ve BACTERIA GRAM +ve BACTERIA EUKARYOTA APPENDIX-1 Prokaryotes Notable for their Environmental Significance APPENDIX-2 Medically Important Chemoorganotrophs APPENDIX-3 Terms Used to Describe Microorganisms According to Their Metabolic Capabilities QUESTIONS Short & Essay Type Questions; Multiple Choice Questions INDEX.

The Fecal Bacteria CRC Press

Your hands-on study guide to the inner world of the cell Need to get a handle on molecular and cell biology? This easy-to-understand guide explains the structure and function of the cell and how recombinant DNA technology is changing the face of science and medicine. You discover how fundamental principles and concepts relate to everyday life. Plus, you get plenty of study tips to improve your grades and score higher on exams! Explore the world of the cell — take a tour inside the structure and function of cells and see how viruses attack and destroy them Understand the stuff of life (molecules) — get up to speed on the structure of atoms, types of bonds, carbohydrates, proteins, DNA, RNA, and lipids Watch as cells function and reproduce — see how cells communicate, obtain matter and energy, and copy themselves for growth, repair, and reproduction Make sense of genetics — learn how parental cells organize their DNA during sexual reproduction and how scientists can predict inheritance patterns Decode a cell's underlying programming — examine how DNA is read by cells, how it determines the traits of organisms, and how it's regulated by the cell Harness the power of DNA — discover how scientists use molecular biology to explore genomes and solve current world problems Open the book and find: Easy-to-follow explanations of key topics The life of a cell — what it needs to survive and reproduce Why molecules are so vital to cells Rules that govern cell behavior Laws of thermodynamics and cellular work The principles of Mendelian genetics Useful Web sites Important events in the development of DNA technology Ten great ways to improve your biology grade

Biology: The Dynamic Science Springer Science & Business Media

The Epstein-Barr virus was discovered 15 years ago. Since that time an immense body of information has been accumulated on this agent which has come to assume great significance in many different fields of biological science. Thus, the virus has very special relevance in human medicine and oncology, in tumor virology, in immunology, and in molecular virology, since it is the cause of infectious mononucleosis and also the first human cancer virus, etiologically related to endemic Burkitt's lymphoma and probably to nasopharyngeal carcinoma. In addition, continuous human lymphoid cell lines initiated and maintained by the transforming function of the virus genome provide a laboratory tool with wide and ever-growing applications. Innumerable papers on the Epstein-Barr virus have appeared over recent years and reports of work with this agent now constitute a veritable flood. The present book provides the first and only comprehensive, authoritative over-view of all aspects of the virus by authors who have been the original and major contributors in their particular disciplines. A complete and up-to-date survey of this unique and important agent is thus provided which should be of great interest to experts, teachers, and students engaged in cancer research, virology, immunology, molecular biology, epidemiology, and cell culture. Where topics have been dealt with from more than one of these viewpoints, some inevitable overlap and duplication has resulted; although this has been kept to a minimum, it has been retained in some places because of positive usefulness.

Molecular Medical Microbiology, Three-Volume Set Anchor

The Desk Encyclopedia of Microbiology, Second Edition is a single-volume comprehensive guide to microbiology for the advanced reader. Derived from the six volume e-only Encyclopedia of Microbiology, Third Edition, it bridges the gap between introductory texts and specialized reviews. Covering topics ranging from the basic science of microbiology to the current "hot" topics in the field, it will be invaluable for obtaining background information on a broad range of microbiological topics, preparing lectures and preparing grant applications and reports. * The most comprehensive single-volume source providing an overview of microbiology to non-specialists * Bridges the gap between introductory texts and specialized reviews. * Provides concise and general overviews of important topics within the field making it a helpful resource when preparing for lectures, writing reports, or drafting grant applications

Text Book of Microbiology CSHL Press

Coronaviruses Humana

Atlas of Oral Microbiology: From Healthy Microflora to Disease Frontiers Media SA

This book comprehensively discusses our current understanding of the role and biological mechanisms of horizontal transfer of genetic elements in the environment, which has been important in the evolution of prokaryotes (archaea and bacteria). Horizontal transfer of genetic elements generates variations of prokaryotes and their genomes. Comparative studies of genomes revealed that it frequently occurred during archaeal and bacterial evolution. The book introduces a variety of studies related to horizontal gene transfer, gene silencing, plasmids, phages, transposons, and the emergence of microbes that degrade man-made xenobiotics and have antimicrobial resistance. Written by leading researchers in DNA traffic, the book is a valuable guide to horizontal transfer for both young scientists and experts in the field.

Flexible Viruses I. K. International Pvt Ltd

"Pharmaceutics is the art of pharmaceutical preparations. It encompasses design of drugs, their manufacture and the elimination of micro-organisms from the products. This book encompasses all of these areas."--Provided by publisher.

The Hot Zone Coronaviruses

Peterson's Master the PCAT is an in-depth review that offers thorough preparation for the computer-based exam. After learning about the structure, format, scoring and score reporting, and the subtests and question types, you can take a diagnostic test to learn about your strengths and weaknesses. The next six parts of the eBook are focused on detailed subject reviews for each subtest: verbal ability, reading comprehension, biology, chemistry, quantitative ability, and writing. Each review includes practice questions with detailed answer explanations. You can take two practice tests to track your study progress. The tests also offer detailed answer explanations to further improve your knowledge and understanding of the tested subjects. The eBook concludes with an appendix that provides helpful information on a variety of careers in pharmacy and ten in-depth career profiles.

The lac Operon American Society for Microbiology Press

The molecular age has brought about dramatic changes in medical microbiology, and great leaps in our understanding of the mechanisms of infectious disease. Molecular Medical Microbiology is the first book to synthesise the many new developments in both molecular and clinical research in a single comprehensive resource. This timely and authoritative 3-volume work is an invaluable reference source of medical bacteriology. Comprising over 100 chapters, organised into 17 major sections, the scope of this impressive work is wide-

ranging. Written by experts in the field, chapters include cutting edge information, and clinical overviews for each major bacterial group, in addition to the latest updates on vaccine development, molecular technology and diagnostic technology. * The first comprehensive and accessible reference on Molecular Medical Microbiology * Two color presentation throughout * Full colour plate section * Fully integrated and meticulously organised * In depth discussion of individual pathogenic bacteria in a system-oriented approach * Includes a clinical overview for each major bacterial group * Presents the latest information on vaccine development, molecular technology and diagnostic technology * Extensive indexing and cross-referencing throughout * Over 100 chapters covering all major groups of bacteria * Written by an international panel of authors expert in their respective disciplines * Over 2300 pages in three volumes

Nuclear Science Abstracts Elsevier Health Sciences

New viral diseases are emerging continuously. Viruses adapt to new environments at astounding rates. Genetic variability of viruses jeopardizes vaccine efficacy. For many viruses mutants resistant to antiviral agents or host immune responses arise readily, for example, with HIV and influenza. These variations are all of utmost importance for human and animal health as they have prevented us from controlling these epidemic pathogens. This book focuses on the mechanisms that viruses use to evolve, survive and cause disease in their hosts. Covering human, animal, plant and bacterial viruses, it provides both the basic foundations for the evolutionary dynamics of viruses and specific examples of emerging diseases. * NEW - methods to establish relationships among viruses and the mechanisms that affect virus evolution *

UNIQUE - combines theoretical concepts in evolution with detailed analyses of the evolution of important virus groups * SPECIFIC - Bacterial, plant, animal and human viruses are compared regarding their interaction with their hosts