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2014-04-11

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Eco-immunology

2012-01-05

this book represents a cutting edge contribution giving an all around perspective of eco immunology today beside questions of the utmost importance for the whole community of immunologists e g the intrinsic limits of immunological experiments performed at the bench on a limited number of selected models the book covers several other facets of the eco immunological approach including host parasite interactions human aging and population immunology throughout the book the importance of population dynamics and evolutionary diversification of immune systems is frequently recalled and makes the reader aware of the basic similarities and differences existing between humans and the models adopted for studying human immune system the evidenced differences have been recently challenging the reliability of several established animal models and in the book it is discussed for the first time in analytical terms whether mice are reliable models of human inflammatory disorders

Ecoimmunology

2020

this book critically reviews recent advances in ecoimmunology a newly emergent interdisciplinary research field that examines interactions among host physiology and disease ecology in a wide range of environmentally relevant contexts

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Myxozoan Evolution, Ecology and Development

2012-12-06

this book provides an up to date review of the biology of myxozoans which represent a divergent clade of endoparasitic cnidarians myxozoans are of fundamental interest in understanding how early diverging metazoans have adopted parasitic lifestyles and are also of considerable economic and ecological concern as endoparasites of fish synthesizing recent research the chapters explore issues such as myxozoan origins evolutionary trends and diversification development and life cycles interactions with hosts immunology disease ecology the impacts of climate change on disease risk assessment emerging diseases and disease mitigation this comprehensive work will appeal to a wide readership from invertebrate zoologists evolutionary biologists and developmental biologists to ecologists and parasitologists it will also be of great practical interest to fisheries and conservation biologists the identification of key areas for future research will appeal to scientists at all levels

Advances in Comparative Immunology

1976

immunologists perhaps understandably most often concentrate on the human immune system an anthropocentric focus that has resulted in a dearth of information about the immune function of all other species within the animal kingdom however knowledge of animal immune function could help not only to better understand human immunology but perhaps more importantly it could help to treat and avoid the blights that affect animals which consequently affect humans take for example the mass death of honeybees in recent years their demise resulting in much less pollination poses a serious threat to numerous crops and thus the food supply there is a similar disappearance of frogs internationally signaling ecological problems among them fungal infections this book aims to fill this void by describing and discussing what is known about non human immunology it covers various major animal phyla its chapters organized in a progression from the simplest unicellular organisms to the most complex vertebrates mammals chapters are written by experts covering the latest findings and new research being conducted about each phylum edwin l cooper is a distinguished professor in the laboratory of comparative immunology department of neurobiology at ucla s david geffen school of medicine

Healing the Schism

2012-09-05

my conviction is that the matters addressed in this volume are of transcendental importance if we are to face up to the challenges of the 1990s and beyond how for instance are we to cope with a truly ecological approach to public health and all its concomitant changes of risk groups worldwide unless there is a full appreciation of the population perspective throughout the health establishment the global village has achieved a measure of interdependence requiring recognition by all concerned with the health of both individuals and communities that there is an urgent need to share our knowledge and deploy our resources in the best interests of people everywhere the history of public health initiatives the origins of epidemiology and the tragic separation virtually a divorce of public health from medicine recounted in the chapters that follow argue strongly for an early rapprochement health professionals who complement each other s knowledge and skills can be reunited through their common reliance on epidemiology as a major fundamental science for the entire health enterprise henceforth epidemiology should be ranked in importance with cellular and molecular biology immunology and the social and systems sciences all are essential if we are to cope with the vast array of diseases and disorders that face us in both the developed and developing worlds we need more first rate laboratory scientists clinicians nurses aides village health workers and managers committed to serving the public

Comparative Immunology

2013-08-30

henipaviruses form a new genus of emerging paramyxoviruses that are the deadliest human pathogens within the paramyxoviridae family this volume deals with the many facets of henipavirus biology and covers our current understanding regarding the ecology molecular

virology and pathogenesis of henipavirus infections it is an international effort written by a multidisciplinary panel of experts at the front lines of research into this lethal emerging group of paramyxoviruses the first section introduces the epidemiology and ecology of nipah and hendra viruses in their respective endemic areas including a first hand account of the discovery of nipah virus during its initial outbreak in malaysia the next section documents the molecular virology of henipaviruses and the substantial advances made towards understanding the unique features of henipavirus entry and tropism and this is followed by accounts of the clinical and pathologic features of henipavirus infections in their human and naturally infected animal hosts the next sections on pathogenesis provide a comprehensive reference on how henipaviruses counteract the innate immune system and the relevant pathogenic features in animal challenge models developed to test potential therapeutic strategies the final sections describe our current and future capabilities for diagnosis and control including an account of potentially effective immunization strategies that are currently being tested this book will not only serve as a useful reference for the henipavirus field it will be useful to basic and animal virologists ecologists epidemiologists physicians and others interested in emerging infectious viral diseases as it showcases the multidisciplinary efforts required to understand the genesis spread and hopefully control of a group of lethal emerging zoonotic pathogens

Henipavirus

2010-08-05

the immune systems of human and non human primates have diverged over time such that some species differ considerably in their susceptibility symptoms and survival of particular infectious diseases variation in primate immunity is such that major human pathogens such as immunodeficiency viruses herpesviruses and malaria inducing species of plasmodium elicit striking differences in immune response between closely related species and within primate populations these differences in immunity are the outcome of complex evolutionary processes that include interactions between the host its pathogens and symbiont commensal organisms the success of some pathogens in establishing persistent infections in humans and other primates has been determined not just by the molecular evolution of the pathogen and its interactions with the host but also by the evolution of primate behavior and ecology microflora immune factors and the evolution of other biological systems to explore how interactions between primates and their pathogens have shaped their mutual molecular evolution primates pathogens and evolution brings together research that explores comparative primate immune function the emergence of major and neglected primate diseases primate microorganism molecular interactions and related topics this book will be of interest to anyone curious as to why infectious diseases manifest differently in humans and their closest relatives it will be of particular interest to scholars specializing in human and non human primate evolution epidemiology and immunology and disease ecology primates pathogens and evolution offers an overview and discussion of current findings on differences in the molecular mechanics of primate immune response as well as on pathogen mediated primate evolution and human and non human primate health

Primates, Pathogens, and Evolution

2019-03-25

since the concept of allelopathy was introduced almost 100 years ago research has led to an understanding that plants are involved in complex communicative interactions they use a battery of different signals that convey plant relevant information within plant individuals as well as between plants of the same species or different species the 13 chapters of this volume discuss all these topics from an

ecological perspective communication between plants allows them to share physiological and ecological information relevant for their survival and fitness it is obvious that in these very early days of ecological plant communication research we are illuminating only the tip of iceberg of the communicative nature of higher plants nevertheless knowledge on the identity and informative value of volatiles used by plants for communication is increasing with breath taking speed among the most spectacular examples are situations where plant emitters warn neighbours about a danger increasing their innate immunity or when herbivore attacked plants attract the enemies of the herbivores cry for help and plant bodyguards concepts it is becoming obvious that plants use not only volatile signals but also diverse water soluble molecules in the case of plant roots to safeguard their evolutionary success and accomplish self non self kin recognition importantly as with all the examples of biocommunication irrespective of whether signals and signs are transmitted via physical or chemical pathways plant communication is a rule governed and sign mediated process

Plant Communication from an Ecological Perspective

2013-11-22

there has never been a better time to for a handbook focused on women in science in may 2016 the american association for the advancement of science posted an article titled we need to do more for women in science this book describes the importance of carving out spaces for women in science and includes the unique strengths of women scientists as well as challenges they tend to face studies of women leadership consistently illustrate that women demonstrate strengths in leadership across communities and have skills in bringing together groups towards a common goal the role of women in context is an important one in science but has not been the focus of previous texts about careers in science or medicine this first of its kind book develops an understanding of research careers occurring within a greater community of colleagues and academicians as well as the fact that women themselves lead within a group a community and a context the book focuses on women who are pursuing research careers in academic medicine with specific emphasis on women in science and research as well as lessons learned from fellow female scientists it also provides key strategies and skills centered on the social ecological model as well as a sense of community with other women scientists the book is organized thematically using the social ecological model as a framework in which we all live and complete our work women rock science is a valuable resource that can be used in a variety of settings it is beneficial for university classes as well as lab group meetings it also places an emphasis on community and can be shared with one's community of mentors mentees and colleagues

Women Rock Science

2016-10-09

one health is an emerging concept that aims to bring together human animal and environmental health achieving harmonized approaches for disease detection and prevention is difficult because traditional boundaries of medical and veterinary practice must be crossed in the 19th and early 20th centuries this was not the case then researchers like louis pasteur and robert koch and physicians like william osler and rudolph virchow crossed the boundaries between animal and human health more recently calvin schwabe revised the concept of one medicine this was critical for the advancement of the field of epidemiology especially as applied to zoonotic diseases the future of one health is at a crossroads with a need to more clearly define its boundaries and demonstrate its benefits interestingly the greatest acceptance of one health is seen in the developing world where it is having significant impacts on control of infectious diseases

One Health: The Human-Animal-Environment Interfaces in Emerging Infectious Diseases

2011-08-30

this is the first book on ranaviruses ranaviruses are double stranded dna viruses that cause hemorrhagic disease in amphibians reptiles and fish they have caused mass die offs of ectothermic vertebrates in wild and captive populations around the globe there is evidence that this pathogen is emerging and responsible for population declines in certain locations considering that amphibians and freshwater turtles are suitable hosts and the most imperiled vertebrate taxa in the world ranaviruses can have significant impacts on biodiversity and ecosystem function additionally many fish that are raised in aquaculture facilities and traded internationally are suitable hosts thus the potential economic impact of ranaviruses is significant ranaviruses also serve as a model for replication and gene function of large double stranded dna viruses there is an urgent need to assemble the contemporary information on ranaviruses and provide guidance on how to assess their threats in populations through the global ranavirus consortium 24 experts from six countries were organize to write this volume the first book on ranaviruses the book begins with a discussion on the global extent of ranaviruses case histories of infection and disease in ectothermic vertebrates and current phylogeny basic principles of ranavirus ecology and evolution are covered next with a focus on host pathogen interactions and how the virus emerges in its environment there are two chapters that will discuss the molecular biology of ranaviruses host response to infection and the genes responsible for immune system evasion one chapter establishes standards for testing for infection and diagnosing ranaviral disease the book ends by providing guidance on how to design ranavirus surveillance studies and analyze data to determine risk and discussing the role of the global ranavirus consortium in organizing research and outreach activities

Ranaviruses

2013-09-05

a new ecology presents an ecosystem theory based on the following ecosystem properties physical openness ontic openness directionality connectivity a complex dynamic for growth and development and a complex dynamic response to disturbances each of these properties is developed in detail to show that these basic and characteristic properties can be applied to explain a wide spectrum of ecological observations and convections it is also shown that the properties have application for environmental management and for assessment of ecosystem health demonstrates an ecosystem theory that can be applied to explain ecological observations and rules presents an ecosystem theory based upon a systems approach discusses an ecosystem theory that is based on a few basic properties that are characteristic for ecosystemes

A New Ecology

2014-10-08

this volume explores the interactions between organisms and their environments and how this entanglement is a fundamental aspect of all

life it brings together the work and ideas of historians philosophers biologists and social scientists uniting a range of new perspectives methods and frameworks for examining and understanding the ways that organisms and environments interact the volume is organized into three main sections historical perspectives contested models and emerging frameworks the first section explores the origins of the modern idea of organism environment interaction in the mid nineteenth century and its development by later psychologists and anthropologists in the second section a variety of controversial models from mathematical representations of evolution to model organisms in medical research are discussed and reframed in light of recent questions about the interplay between organisms and environment the third section investigates several new ideas that have the potential to reshape key aspects of the biological and social sciences populations of organisms evolve in response to changing environments bodies and minds depend on a wide array of circumstances for their development cultures create complex relationships with the natural world even as they alter it irrevocably the chapters in this volume share a commitment to unraveling the mysteries of this entangled life

Entangled Life

2010-06-10

this two volume work covers the molecular and cell biology genetics and evolution of influenza viruses the pathogenesis of infection resultant host innate and adaptive immune response prevention of infection through vaccination and approaches to the therapeutic control of infection experts at the forefront of these areas provide critical assessments with regard to influenza virology immunology cell and molecular biology and pathogenesis volume i provides overviews of the latest findings on molecular determinants of viral pathogenicity virus entry and cell tropism pandemic risk assessment transmission and pathogenesis in animal species viral evolution ecology and antigenic variation while volume ii focuses on the role of innate and adaptive immunity in pathogenesis development of vaccines and antivirals

Influenza Pathogenesis and Control - Volume I

2014-07-08

habitats and the overlapping of these biotopes by humans and animals contributed to the spread of mycobacteria and perhaps to their convergence to pathogenicity it was not our intention to present a compendium covering all published results but rather to issue a readable book which is illustrative and thus focused on the principle facts the increase in the number of editors has allowed the sharing of original experiences regarding the ecology of mycobacteria published here for the rst time in some cases the supplemented edition should serve as a guide to these discoveries and also contribute to an understanding of clinically signi cant species in human and animal medicine borstel germany january 2009 jindrich kazda editors comments the editors responsible for the chapters are listed under the title of each chapter authors are listed under the titles of subchapters the references are listed as they appear in the databases reference manager thomson reuters philadelphia as imported from of science thomson reuters philadelphia or pubmed medline nlm bethesda a few citations not indexed were cited according to the reprints or books available this principle resulted in minor differences in the titles not all reference titles are in english some references have capitalized title words not all species names are according to the contemporary nomenclature and in italics some journals are cited with abbreviated titles some in full as available in the source databases these differences were left in the format of the database

The Ecology of Mycobacteria: Impact on Animal's and Human's Health

2021-05-10

this comprehensive interdisciplinary book covers different aspects of relevant human pathogens and commensals the ongoing development of meta genomic transcriptomic proteomic and bioinformatic analyses of pathogenic and commensal microorganisms and their host interaction provides a comprehensive introduction to the microbiological analysis of host microbe interplay and its consequences for infection or commensalism

Between Pathogenicity and Commensalism

2020-10-19

in december 2019 the world witnessed the occurrence of a new coronavirus to humanity the disease spread quickly and became known as a pandemic globally affecting both society and the health care system both the elderly and young groups of people and both the men s and women s groups it was a universal challenge that immediately caused a surge in scientific research be a part of a world rising in fighting against the pandemic the coronavirus disease covid 19 was depicted in the early days of the pandemic but updated by more than 200 scientists and clinicians to include many facets of this new infectious pandemic including i characteristics ecology and evolution of coronaviruses ii epidemiology genetics and pathogenesis immune responses and oxidative stress of the disease iii diagnosis prognosis and clinical manifestations of the disease in pediatrics geriatrics pregnant women and neonates iv challenges of co occurring the disease with tropical infections cardiovascular diseases hypertension and cancer and to the settings of dentistry hematology ophthalmology and pharmacy v transmission prevention and potential treatments ranging from supportive ventilator support and nutrition therapy to potential virus and host based therapies immune based therapies photobiomodulation antiviral photodynamic therapy and vaccines vi the resulting consequences on social lives mental health education tourism industry and economy and vii multimodal approaches to solve the problem by bioinformatic methods innovation and ingenuity globalization social and scientific networking interdisciplinary approaches and art integration we are approaching december 2020 and the still presence of covid 19 asking us to call it covid without 19

Coronavirus Disease - COVID-19

2021-07-06

the tropics are home to the greatest biodiversity in the world but tropical species are at risk due to anthropogenic activities mainly land use change habitat loss invasive species and pathogens over the past 20 years the avian malaria and related parasites order haemosporida systems have received increased attention in the tropical regions from a diverse array of research perspectives however to date no attempts have been made to synthesize the available information and to propose new lines of research this book provides such a synthesis by not only focusing on the antagonistic interactions but also by providing conceptual chapters on topics going from avian haemosporidians life cycles and study techniques to chapters addressing current concepts on ecology and evolution for example a chapter synthesizing basic biogeography and ecological niche model concepts is presented followed by one on the island biogeography of avian

haemosporidians accordingly researchers and professionals interested in these antagonistic interaction systems will find both an overview of the field with special emphasis on the tropics and access to the necessary conceptual framework for various topics in ecology evolution and systematics given its conceptual perspective the book will appeal not only to readers interested in avian haemosporidians but also to those more generally interested in the ecology evolution and systematics of host parasite interactions

Avian Malaria and Related Parasites in the Tropics

2014-10-24

this book aims to present updated knowledge on various aspects of the natural history biology and impact of triatomines to all interested readers each chapter will be written by authorities in the respective field covering topics such as behavior neurophysiology immunology ecology and evolution the contents will consider scientific as well as innovative perspectives on the problems related to the role of triatomine bugs as parasite vectors affecting millions in the latin american region

Triatominae - The Biology of Chagas Disease Vectors

2018-08-21

vibrios are gram negative bacilli that occur naturally in marine estuarine and freshwater systems some species include human and animal pathogens capable of causing gastroenteritis wound infections cholera and fatal septicemia over the past decades cutting edge research on vibrio genomics has promoted a tremendous advance in our knowledge of these pathogens significant developments include the discovery of emerging epidemic clones tracking the spread of new strain variants and an intensified appreciation of the role of mobile genetic elements in antibiotic resistance spread as well as pathogenesis furthermore improved understanding of the interaction of vibrios with a variety of living organisms in the aquatic environment has documented the significant role of environmental reservoirs in their seasonal cycle favoring persistence of the pathogen during inter epidemic periods and enhancing disease transmission this research topic is dedicated to our current understanding in these areas and will bring together leading experts in the field to provide a deep overview of vibrios ecology and evolution and will suggest the pathway of future research in this field

Vibrio ecology, pathogenesis and evolution

2012-12-02

spirochetes comprise a fascinating group of bacteria although diverse in terms of their habitat ecology and infectivity for vertebrate and non vertebrate hosts they are often considered together because of their similar cellular morphologies this volume brings together an international group of experts to provide essential insights into spirochete biology with an emphasis on recent advances made possible by the availability of genome sequences as such it offers a valuable resource for microbiologists and other scientists with an interest in spirochete biology

Spirochete Biology: The Post Genomic Era

2013-06-29

the second edition of avian immunology provides an up to date overview of the current knowledge of avian immunology from the ontogeny of the avian immune system to practical application in vaccinology the book encompasses all aspects of innate and adaptive immunity in chickens in addition chapters are devoted to the immunology of other commercially important species such as turkeys and ducks and to ecoimmunology summarizing the knowledge of immune responses in free living birds often in relation to reproductive success the book contains a detailed description of the avian innate immune system encompassing the mucosal enteric respiratory and reproductive systems the diseases and disorders it covers include immunodepressive diseases and immune evasion autoimmune diseases and tumors of the immune system practical aspects of vaccination are examined as well extensive appendices summarize resources for scientists including cell lines inbred chicken lines cytokines chemokines and monoclonal antibodies the world wide importance of poultry protein for the human diet as well as the threat of avian influenza pandemics like h5n1 and heavy reliance on vaccination to protect commercial flocks makes this book a vital resource this book provides crucial information not only for poultry health professionals and avian biologists but also for comparative and veterinary immunologists graduate students and veterinary students with an interest in avian immunology with contributions from 33 of the foremost international experts in the field this book provides the most up to date review of avian immunology so far contains a detailed description of the avian innate immune system reviewing constitutive barriers chemical and cellular responses it includes a comprehensive review of avian toll like receptors contains a wide ranging review of the ecoimmunology of free living avian species as applied to studies of population dynamics and reviews methods and resources available for carrying out such research

Avian Immunology

2012-08-30

from earlier ecological studies it has become apparent that simple univariate or bivariate statistics are often inappropriate and that multivariate statistical analyses must be applied despite several difficulties arising from the application of multivariate methods community ecology has acquired a mathematical framework with three consequences it can develop as an exact science it can be applied operationally as a computer assisted science to the solution of environmental problems and it can exchange information with other disciplines using the language of mathematics this book comprises the invited lectures as well as working group reports on the nato workshop held in roscoff france to improve the applicability of this new method numerical ecology to specific ecological problems

Developments in Numerical Ecology

2020-11-03

psychoneuroimmunology pni has developed rapidly in the last four decades as a multidisciplinary area pni may provide a scientific basis for mind body relationships toward the development of personalized and systems medicine in psychoneuroimmunology methods and

protocols expert researchers in the field detail methods and protocols geared toward the development of integrative and individualized therapeutics in multiple dimensions from drugs to behaviors written in the highly successful methods in molecular biologytm series format the chapters include the kind of detailed description and implementation advice that is crucial for getting optimal results in the laboratory thorough and intuitive psychoneuroimmunology methods and protocols aids scientists in continuing to study holistic views for the translation of psychoneuroimmunology into better preventive and personalized medical practice

Psychoneuroimmunology

2004-08-11

assesses a promising new approach to restoring the health of our bodies and our planet most of us are familiar with probiotics added to milk or yogurt to improve gastrointestinal health in fact the term refers to any intervention in which life is used to manage life from the microscopic like consuming fermented food to improve gut health to macro approaches such as biological pest control and natural flood management in this ambitious and original work jamie lorimer offers a sweeping overview of diverse probiotic approaches and an insightful critique of their promise and limitations during our current epoch the anthropocene human activity has been the dominant influence on climate and the environment leading to the loss of ecological abundance diversity and functionality lorimer describes cases in which scientists and managers are working with biological processes to improve human environmental and even planetary health pursuing strategies that stand in contrast to the antibiotic approach big pharma extreme hygiene and industrial agriculture the probiotic planet focuses on two forms of rewilding occurring on vastly different scales the first is the use of keystone species like wolves and beavers as part of landscape restoration the second is the introduction of hookworms into human hosts to treat autoimmune disorders in both cases the goal is to improve environmental health whether the environment being managed is planetary or human lorimer argues that all too often such interventions are viewed in isolation and he calls for a rethinking of artificial barriers between science and policy he also describes the stark and unequal geographies of the use of probiotic approaches and examines why these patterns exist the author s preface provides a thoughtful discussion of the covid 19 pandemic as it relates to the probiotic approach informed by deep engagement with microbiology immunology ecology and conservation biology as well as food agriculture and waste management the probiotic planet offers nothing less than a new paradigm for collaboration between the policy realm and the natural sciences

The Probiotic Planet

2020-08-12

this fully revised and expanded edition of fundamentals of soil ecology continues its holistic approach to soil biology and ecosystem function students and ecosystem researchers will gain a greater understanding of the central roles that soils play in ecosystem development and function the authors emphasize the increasing importance of soils as the organizing center for all terrestrial ecosystems and provide an overview of theory and practice of soil ecology both from an ecosystem and evolutionary biology point of view this volume contains updated and greatly expanded coverage of all belowground biota roots microbes and fauna and methods to identify and determine its distribution and abundance new chapters are provided on soil biodiversity and its relationship to ecosystem processes suggested laboratory and field methods to measure biota and their activities in ecosystems contains over 60 new material and 150 more pages includes new chapters on soil biodiversity and its relationship to ecosystem function outlines suggested laboratory and field

methods incorporates new pedagogical features combines theoretical and practical approaches

Fundamentals of Soil Ecology

1995-09-07

this book illustrates that the fungal cell wall is critical for the biology and ecology of all fungi and especially for human fungal pathogens readers will learn that the composition of the fungal cell wall is a unique structure which cannot be found in the human host consequently the chapters outline how the immune systems of both animals and humans have evolved to recognize conserved and unique elements of the fungal cell wall as an application example the authors also show that the three dimensional structures of the cell wall are excellent targets for the development of antifungal agents and chemotherapeutic strategies with the combination of biological findings and medical outlooks this volume is a fascinating read for scientists clinicians and biomedical students

The Fungal Cell Wall

2012-12-06

a combination of ecology and epidemiology in natural unmanaged animal and plant populations

Ecology of Infectious Diseases in Natural Populations

2014-10-13

william trager has been an avid student of parasites for over 50 years at the rockefeller university around the turn of this century parasitology enjoyed a certain vogue inspired by colonial responsibilities of the technically advanced countries and by the exciting etiological and therapeutic discoveries of ross manson ehrlich and others for some decades the western hemisphere's interest in animal parasites has been eclipsed by concern for bacteria and viruses as agents of transmissible disease only very recently initiatives like the tropical disease research programs of who world bank undp and the great neglected disease networks of the rockefeller and macarthur foundations have begun to compensate for the neglect of these problems by united states federal health research agencies throughout that period however the rockefeller institute later university has given high priority to the challenges of parasitism corresponding during a formidable period with dr trager's own career the present work then is a distillation of the insight collected by our principal doyen of parasite biology informed but by no means confined to his own research it is addressed to the reader of broad biological interest and training not to the specialist the disarmingly unpretentious style makes the work readily accessible to college undergraduates or even to gifted high school students but do not be deceived thereby as it has an enormous range of factual information and theoretical insight familiar to few but potentially important to most biologists

Living Together

2010-08-05

the prokaryotes is a comprehensive multi authored peer reviewed reference work on bacteria and achaea this fourth edition of the prokaryotes is organized to cover all taxonomic diversity using the family level to delineate chapters different from other resources this new springer product includes not only taxonomy but also prokaryotic biology and technology of taxa in a broad context technological aspects highlight the usefulness of prokaryotes in processes and products including biocontrol agents and as genetics tools the content of the expanded fourth edition is divided into two parts part 1 contains review chapters dealing with the most important general concepts in molecular applied and general prokaryote biology part 2 describes the known properties of specific taxonomic groups two completely new sections have been added to part 1 bacterial communities and human bacteriology the bacterial communities section reflects the growing realization that studies on pure cultures of bacteria have led to an incomplete picture of the microbial world for two fundamental reasons the vast majority of bacteria in soil water and associated with biological tissues are currently not culturable and that an understanding of microbial ecology requires knowledge on how different bacterial species interact with each other in their natural environment the new section on human microbiology deals with bacteria associated with healthy humans and bacterial pathogenesis each of the major human diseases caused by bacteria is reviewed from identifying the pathogens by classical clinical and non culturing techniques to the biochemical mechanisms of the disease process the 4th edition of the prokaryotes is the most complete resource on the biology of prokaryotes the following volumes are published consecutively within the 4th edition prokaryotic biology and symbiotic associations prokaryotic communities and ecophysiology prokaryotic physiology and biochemistry applied bacteriology and biotechnology human microbiology actinobacteria firmicutes alphaproteobacteria and betaproteobacteria gammaproteobacteria deltaproteobacteria and epsilonproteobacteria other major lineages of bacteria and the archaea

The Prokaryotes

2011-04-27

this book describes the underlying water conditions and geologies that support viable riparia illustrates the ecological characteristics of riparia and discusses how riparia are used by human cultures as well as how riparia can be used to sustain environmental quality in recent years riparian management has been widely implemented as a means of improving fisheries water quality and habitat for endangered species this book provides the basic knowledge necessary to implement successful long term management and rehabilitation programs treats riparian patterns processes in a holistic perspective from ecological components to societal activities contains over 130 illustrations and photos that summarize this complex ecological system synthesizes the information from more than 6 000 professional articles sidebars provide a look into ongoing research that is at the frontiers of riparian ecology and management

Riparia

2019-05-09

methods in stream ecology second edition provides a complete series of field and laboratory protocols in stream ecology that are ideal for teaching or conducting research this updated edition reflects recent advances in the technology associated with ecological assessment of streams including remote sensing in addition the relationship between stream flow and alluviation has been added and a new chapter on riparian zones is also included the book features exercises in each chapter detailed instructions illustrations formulae and data sheets for in field research for students and taxonomic keys to common stream invertebrates and algae with a student friendly price this book is key for all students and researchers in stream and freshwater ecology freshwater biology marine ecology and river ecology this text is also supportive as a supplementary text for courses in watershed ecology science hydrology fluvial geomorphology and landscape ecology exercises in each chapter detailed instructions illustrations formulae and data sheets for in field research for students taxonomic keys to common stream invertebrates and algae link from chapter 22 fish community composition to an interactive program for assessing and modeling fish numbers

Methods in Stream Ecology

2018-11-28

through interdisciplinary and multidisciplinary perspectives and with an emphasis on exploring patterns as well as distinct and unique conditions across the globe this collection examines advanced and cutting edge theoretical and methodological approaches to the study of the health of urban populations despite the growing interest in global urban health there are limited resources available that provide an extensive and advanced exploration into the health of urban populations in a transnational context this volume offers a high quality and comprehensive examination of global urban health issues by leading urban health scholars from around the world the book brings together a multi disciplinary perspective on urban health with chapter contributions emphasizing disciplines in the social sciences construction sciences and medical sciences the co editors of the collection come from a number of different disciplinary backgrounds that have been at the forefront of urban health research including public health epidemiology geography city planning and urban design the book is intended to be a reference in global urban health for research libraries and faculty collections it will also be appropriate as a text for university class adoption in upper division under graduate courses and above the proposed volume is extensive and offers enough breadth and depth to enable it to be used for courses emphasizing a u s or wider western perspective as well as courses on urban health emphasizing a global context

Handbook of Global Urban Health

2002-07-24

this volume reviews various facets of agrobacterium biology from modern aspects of taxonomy and bacterial ecology to pathogenesis bacterial cell biology plant and fungal transformation natural transgenics and biotechnology agrobacterium mediated transformation is the most extensively utilized platform for generating transgenic plants but modern biotechnology applications derive from more than 40 years of intensive basic scientific research many of the biological principles established by this research have served as models for other bacteria including human and animal pathogens written by leading experts and highlighting recent advances this volume serves both as an introduction to agrobacterium biology for students as well as a more comprehensive text for research scientists

Agrobacterium Biology

bacillus anthracis causes anthrax in all mammals including humans depending upon the route of entry of b anthracis spores infection can result in cutaneous lesions which are readily treatable with antibiotics or systemic lethal disease which is nearly always fatal the continuing worldwide incidence of anthrax in animal populations the risk of human infection associated with animal outbreaks and the threat of use of b anthracis as a biological weapon warrant continued investigation of this organisms and its virulence mechanisms furthermore b anthracis is an excellent model system for investigation of virulence gene expression by bacteria

Anthrax

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