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Forensic Biology Recent Advances in the Biology, Therapy and Management of Melanoma Oceanography and Marine Biology The Physiology of Sexist and Racist Oppression DNA Methylation Advances in Computational Biology Regulation of Synthetic Biology Colorectal Cancer Biology The Biology of Mosquitoes, Volume 3 Transmission of Viruses and Interactions with Bacteria Cambridge IGCSE® Biology Coursebook with CD-ROM Synthetic Biology Beyond Biology Structural Interfaces and Attachments in Biology Reviews on Selected Topics of Telomere Biology The Biology of Beating Stress Stochastic Modelling for Systems Biology, Third Edition Dynamics of Cell Fate Decision Mediated by the Interplay of Autophagy and Apoptosis in Cancer Cells Encyclopedia of Bioinformatics and Computational Biology Introduction to Modeling Biological Cellular Control Systems Chemical Biology The Involvement of Systemic Homeostasis in Tumour Biology Advances in Freshwater Decapod Systematics and Biology Computation for Humanity Oxidative Stress Algorithms in Bioinformatics Biological Individuality AQA Biology: A Level AQA Biology: A Level Year 2 Bioinformatics Challenges at the Interface of Biology and Computer Science Agri-environmental Management in Europe: Sustainable Challenges and Solutions - From Policy Interventions to Practical Farm Management British Sociology's Lost Biological Roots The Biology of Freshwater Wetlands Biology and Conservation of Martens, Sables, and Fishers The Academic Job Search Handbook Biology and Conservation of Musteloids Microfluidics in Cell Biology Part A: Microfluidics for multicellular systems Alternative Systems for Poultry Ecological Public Health AQA Biology: A Level Year 1 and AS Hybrid Systems Biology

Forensic Biology

2015-01-08

forensic biology provides coordinated expert content from world renowned leading authorities in forensic biology covering the range of forensic biology this volume in the advanced forensic science series provides up to date scientific learning on dna analysis technical information written with the degreed professional in mind brings established methods together with newer approaches to build a comprehensive knowledge base for the student and practitioner alike like each volume in the advanced forensic science series review and discussion questions allow the text to be used in classrooms training programs and numerous other applications sections on fundamentals of forensic science history safety and professional issues provide context and consistency in support of the forensic enterprise forensic biology sets a new standard for reference and learning texts in modern forensic science advanced articles written by international forensic biology experts covers the range of forensic biology including methods and interpretation includes entries on history safety and professional issues useful as a professional reference advanced textbook or training review

Recent Advances in the Biology, Therapy and Management of Melanoma

2013-02-13

the book recent advances in the biology therapy and management of melanoma brings up to date information regarding a number of aspects which culminate in illuminating potential targets in the fight against melanoma this book is intended to be a reference book for both the scientific and clinical communities and brings complicated subject matter together in an easy readable way undoubtedly fundamental scientific understanding has to then be translated to the clinic in order for us to make significant strides in eradicating melanoma it is hoped that scientists clinicians students and residents find this book useful in their studies on melanoma and that it not only expands their perspectives and views on the field but challenges them to forge ahead towards discovering the ultimate cure

Oceanography and Marine Biology

2012-06-05

ever increasing interest in oceanography and marine biology and their relevance to global environmental issues creates a demand for authoritative reviews summarising the results of recent research oceanography and marine biology an annual review has catered to this demand since its founding by the late harold barnes fifty years ago its objectives are to consider annually the basic areas of marine research returning to them when appropriate in future volumes to deal with subjects of special and topical importance and to add new subjects as they arise the favourable reception accorded to all the volumes shows that the series is fulfilling a very real need reviews and sales have been gratifying a milestone in the history of the series the fiftieth volume follows closely the objectives and style of the earlier volumes continuing to regard the marine sciences with all their various aspects as a unity physical chemical and biological aspects of marine science are dealt with by experts actively engaged in these fields the series is an essential reference text for researchers and students in all fields of marine science and related subjects and it finds a place in libraries of not only marine stations and institutes but also universities it is consistently among the highest ranking impact factors for the marine biology category of the citation indices compiled by the institute for scientific information

The Physiology of Sexist and Racist Oppression

2015-07-01

while gender and race often are considered socially constructed this book argues that they are physiologically constituted through the biopsychosocial effects of sexism and racism this means that to be fully successful critical philosophy of race and feminist philosophy need to examine not only the financial legal political and other forms of racist and sexism oppression but also their physiological operations examining a complex tangle of affects emotions knowledge and privilege the physiology of sexist and racist oppression develops an understanding of the human body whose unconscious habits are biological on this account affect and emotion are thoroughly somatic not something mental or extra biological layered on top of the body they also are interpersonal social and can be transactionally transmitted between people ranging from the stomach and the gut to the hips and the heart from autoimmune diseases to epigenetic markers sullivan demonstrates the gastrointestinal effects of sexual abuse that disproportionately affect women often manifesting as ibs crohn s disease or similar functional disorders she also explores the transgenerational effects of racism via epigenetic changes in african american women who experience much higher pre term birth rates than white women do and she reveals the unjust benefits for heart health experienced by white people as a result of their racial privilege finally developing the notion of a physiological therapy that doesn t prioritize bringing unconscious habits to conscious awareness sullivan closes with a double barreled approach for both working for institutional change and transforming biologically unconscious habits the

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physiology of sexist and racist oppression skillfully combines feminist and critical philosophy of race with the biological and health sciences the result is a critical physiology of race and gender that offers new strategies for fighting male and white privilege

DNA Methylation

2012-03-16

epigenetics is one of the most exciting and rapidly developing areas of modern genetics with applications in many disciplines from medicine to agriculture the most common form of epigenetic modification is dna methylation which plays a key role in fundamental developmental processes such as embryogenesis and also in the response of organisms to a wide range of environmental stimuli indeed epigenetics is increasing regarded as one of the major mechanisms used by animals and plants to modulate their genome and its expression to adapt to a wide range of environmental factors this book brings together a group of experts at the cutting edge of research into dna methylation and highlights recent advances in methodology and knowledge of underlying mechanisms of this most important of genetic processes the reader will gain an understanding of the impact significance and recent advances within the field of epigenetics with a focus on dna methylation

Advances in Computational Biology

2013-08-04

this volume compiles accepted contributions for the 2nd edition of the colombian computational biology and bioinformatics congress ccbcol after a rigorous review process in which 54 papers were accepted for publication from 119 submitted contributions bioinformatics and computational biology are areas of knowledge that have emerged due to advances that have taken place in the biological sciences and its integration with information sciences the expansion of projects involving the study of genomes has led the way in the production of vast amounts of sequence data which needs to be organized analyzed and stored to understand phenomena associated with living organisms related to their evolution behavior in different ecosystems and the development of applications that can be derived from this analysis

Regulation of Synthetic Biology

2018-04-27

this book explores the interplay between regulation and emerging technologies in the context of synthetic biology a developing field that promises great benefits and has already yielded fuels and medicines made with designer micro organisms for all its promise however it also poses various risks investigating the distinctiveness of synthetic biology and the regulatory issues that arise alison mclennan questions whether synthetic biology can be regulated within existing structures or whether new mechanisms are needed

Colorectal Cancer Biology

2012-02-10

colorectal cancer is a common disease affecting millions worldwide and represents a global health problem effective therapeutic solutions and control measures for the disease will come from the collective research efforts of clinicians and scientists worldwide this book presents the current status of the strides being made to understand the fundamental scientific basis of colorectal cancer it provides contributions from scientists clinicians and investigators from 20 different countries the four sections of this volume examine the evidence and data in relation to genes and various polymorphisms tumor microenvironment and infections associated with colorectal cancer an increasingly better appreciation of the complex inter connected basic biology of colorectal cancer will translate into effective measures for management and treatment of the disease research scientists and investigators as well as clinicians searching for a good understanding of the disease will find this book useful

The Biology of Mosquitoes, Volume 3 Transmission of Viruses and Interactions with Bacteria

2012

the great importance of mosquitoes lies in their role as transmitters of pathogens and parasites and in their use as experimental animals well suited to laboratory investigations into aspects of biochemistry physiology and behaviour the largest part of this latest volume of the biology of mosquitoes concerns interactions between mosquitoes and viruses and the transmission of arboviruses to their vertebrate hosts while the remainder concerns symbiotic interactions between

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mosquitoes and bacteria the introduction provides a timely review of the first major development in mosquito taxonomy for several decades further chapters describe the interactions between mosquitoes and the viruses that infect them the transmission and epidemiology of seven very important arboviruses and the biology of bacteria that are important control agents or of great biological interest like the earlier volumes volume 3 combines recent information with earlier important findings from field and laboratory to provide the broadest coverage available on the subject

Cambridge IGCSE® Biology Coursebook with CD-ROM

2014-07-31

this edition of our successful series to support the cambridge igcse biology syllabus 0610 is fully updated for the revised syllabus for first examination from 2016 written by an experienced teacher and examiner cambridge igcse biology coursebook with cd rom gives comprehensive and accessible coverage of the syllabus content suggestions for practical activities are included designed to help develop the required experimental skills with full guidance included on the cd rom study tips throughout the text exam style questions at the end of each chapter and a host of revision and practice material on the cd rom are designed to help students prepare for their examinations answers to the exam style questions in the coursebook are provided on the cd rom

Synthetic Biology

2018-02-20

a review of the interdisciplinary field of synthetic biology from genome design to spatial engineering written by an international panel of experts synthetic biology draws from various areas of research in biology and engineering and explores the current applications to provide an authoritative overview of this burgeoning field the text reviews the synthesis of dna and genome engineering and offers a discussion of the parts and devices that control protein expression and activity the authors include information on the devices that support spatial engineering rna switches and explore the early applications of synthetic biology in protein synthesis generation of pathway libraries and immunotherapy filled with the most recent research compelling discussions and unique perspectives synthetic biology offers an important resource for understanding how this new branch of science can improve on applications for industry or biological research

Beyond Biology

2021-11-01

by integrating catholic social thought and social scientific studies of child well being in order to offer a more diverse and inclusive interpretation of parenthood jacob m kohllaas s beyond biology creates room for meaningful intellectually convincing and theologically rich responses to challenges facing catholic families today

Structural Interfaces and Attachments in Biology

2012-10-05

attachment of dissimilar materials in engineering and surgical practice is a perennial challenge bimaterial attachment sites are common locations for injury repeated injury and mechanical failure nature presents several highly effective solutions to the challenge of bimaterial attachment that differ from those found in engineering practice structural interfaces and attachments in biology describes the attachment of dissimilar materials from multiple perspectives the text will simultaneously elucidate natural bimaterial attachments and outline engineering principles underlying successful attachments to the communities of tissue engineers and surgeons included an in depth analysis of the biology of attachments in the body and mechanisms by which robust attachments are formed a review of current concepts of attaching dissimilar materials in surgical practice and a discussion of bioengineering approaches that are currently being developed

Reviews on Selected Topics of Telomere Biology

2012-11-14

telomeres located at the ends of linear chromosomes are essential for genome stability and integrity advances in telomere researches have linked telomere dysfunction with cellular aging and a number of age related human diseases recent studies further expanded our knowledge of telomere functions telomeres are shown to be important for microbial pathogen virulence and telomere proteins have important non telomeric cellular functions this book includes current opinions on selected aspects of telomere research and their implication in hope to help us focus better on future studies and enhance our research progress

The Biology of Beating Stress

2014-06-23

an enlightening guide to how stress wears us down and what we can do to protect ourselves stress doesn't discriminate it can have a negative impact on us regardless of race creed socioeconomic status or political party but with a health issue that's so universal and a flood of not always accurate information about it how can we separate fact from fiction and get a grip on harmful stress the biology of beating stress is a powerful book that summarizes major points about stress in a quick and easily digestible way it explains breathing and relaxation techniques how to not just manage stress but actually use it to your advantage how understanding epigenetics can give you more control over your health the amazing benefits of brain wave entrainment for drug free stress relief foods that help support the body how consistent cortisol reduction techniques create a clear path to a happier healthier more productive and stress free life from a holistic health practitioner this guide puts the focus on the connection between our minds and bodies and reveals the changes that can reduce the impact of stress on both

Stochastic Modelling for Systems Biology, Third Edition

2018-12-07

since the first edition of stochastic modelling for systems biology there have been many interesting developments in the use of likelihood free methods of bayesian inference for complex stochastic models having been thoroughly updated to reflect this this third edition covers everything necessary for a good appreciation of stochastic kinetic modelling of biological networks in the systems biology context new methods and applications are included in the book and the use of r for practical illustration of the algorithms has been greatly extended there is a brand new chapter on spatially extended systems and the statistical inference chapter has also been extended with new methods including approximate bayesian computation abc stochastic modelling for systems biology third edition is now supplemented by an additional software library written in scala described in a new appendix to the book new in the third edition new chapter on spatially extended systems covering the spatial gillespie algorithm for reaction diffusion master equation models in 1 and 2 d along with fast approximations based on the spatial chemical langevin equation significantly expanded chapter on inference for stochastic kinetic models from data covering abc including abc smc updated r package including code relating to all of the new material new r package for parsing sbml models into simulatable stochastic petri net models new open source software library written in scala replicating most of the functionality of the r packages in a fast compiled strongly typed functional language keeping with the spirit of earlier editions all of the new theory is presented in a very informal and intuitive manner keeping the text as accessible as possible to the widest possible readership an effective introduction to the area of stochastic modelling in computational systems biology this new edition adds additional detail and computational methods that will provide a stronger foundation for the development of more advanced courses in stochastic biological modelling

Dynamics of Cell Fate Decision Mediated by the Interplay of Autophagy and Apoptosis in Cancer Cells

2015-02-16

this interdisciplinary thesis introduces a systems biology approach to study the cell fate decision mediated by autophagy a mathematical model of interaction between autophagy and apoptosis in mammalian cells is proposed in this dynamic model autophagy acts as a gradual response to stress rheostat that delays the initiation of bistable switch of apoptosis to give the cells an opportunity to survive the author shows that his dynamical model is consistent with existing quantitative measurements of time courses of autophagic responses to cisplatin treatment to understand the function of this response in cancer cells he has provided a systems biology experimental framework to study quantitative and dynamical aspects of autophagy in single cancer cells using live cell imaging and quantitative fluorescence microscopy this framework can provide new insights on function of autophagic response in cancer cells

Encyclopedia of Bioinformatics and Computational Biology

2018-08-21

encyclopedia of bioinformatics and computational biology abc of bioinformatics three volume set combines elements of computer science information technology mathematics statistics and biotechnology providing the methodology and in silico solutions to mine biological data and processes the book covers theory topics and applications with a special focus on integrative omics and systems biology the theoretical methodological underpinnings of bcb including phylogeny are covered as are more current areas of focus such as translational bioinformatics cheminformatics and environmental informatics finally applications provide guidance for commonly asked questions this major reference work spans basic and cutting edge methodologies authored by leaders in the field providing an invaluable resource for students scientists professionals in

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research institutes and a broad swath of researchers in biotechnology and the biomedical and pharmaceutical industries brings together information from computer science information technology mathematics statistics and biotechnology written and reviewed by leading experts in the field providing a unique and authoritative resource focuses on the main theoretical and methodological concepts before expanding on specific topics and applications includes interactive images multimedia tools and crosslinking to further resources and databases

Introduction to Modeling Biological Cellular Control Systems

2012-04-26

this textbook contains the essential knowledge in modeling simulation analysis and applications in dealing with biological cellular control systems in particular the book shows how to use the law of mass balance and the law of mass action to derive an enzyme kinetic model the michaelis menten function or the hill function how to use a current voltage relation nernst potential equilibrium equation and hodgkin and huxley s models to model an ionic channel or pump and how to use the law of mass balance to integrate these enzyme or channel models into a complete feedback control system the book also illustrates how to use data to estimate parameters in a model how to use matlab to solve a model numerically how to do computer simulations and how to provide model predictions furthermore the book demonstrates how to conduct a stability and sensitivity analysis on a model

Chemical Biology

2012-02-17

chemical biology utilizes chemical principles to modulate systems to either investigate the underlying biology or create new function over recent years chemical biology has received particular attention of many scientists in the life sciences from botany to medicine this book contains an overview focusing on the research area of protein purification enzymology vitamins antioxidants biotransformation gene delivery signaling regulation and organization particular emphasis is devoted to both theoretical and experimental aspects the textbook is written by international scientists with expertise in synthetic chemistry protein biochemistry enzymology molecular biology drug discovery and genetics many of which are active chemical biochemical and biomedical research the textbook is expected to enhance the knowledge of scientists in the complexities of chemical and biological approaches and stimulate both professionals and students to dedicate part of their future research in understanding relevant mechanisms and applications of chemical biology

The Involvement of Systemic Homeostasis in Tumour Biology

2023-10-13

systemic homeostatic mechanisms include several aspects such as metabolic neuroendocrine immune and physiological homeostasis irreversible damage or reversible imbalance of such homeostatic processes may initiate cancers by altering the regulation of the molecular machinery systemic homeostasis related genes have been found to be intimately involved in oncological processes and in some instances have shown prognostic value thus future gene targeting approaches for cancer should not only focus on classical cancer drivers but also address systemic homeostasis related genetic mechanisms identification of systemic homeostasis related genes with diagnostic prognostic or therapeutic value can advance translational cancer research increasing numbers of research studies have reported systemic homeostasis related genes relevance to various types of cancer for example cancer cells have been shown to activate a critical mechanism of oxygen homeostasis hypoxia inducible factors hifs family genes in order to adapt to the tumor microenvironment and develop into a more aggressive phenotype in addition methylene tetrahydrofolate dehydrogenase mthfd family genes are involved in mitochondrial one carbon metabolism which is essential for maintaining systemic metabolic homeostasis and have recently been found overexpressed in many cancers and have been correlated to poor survival outcomes the overexpression of transferrin family genes with iron transporting function has been linked with iron accumulation which is a known initiating factor in cancer another example is forkhead box o foxo family genes which serve as a critical regulator of immune homeostasis and can regulate cancer immunity by negatively regulating the expression of immunosuppressive gene programmed death 1 ligand 1 pd l1 apart from these examples other systemic homeostatic mechanisms such as glucose homeostasis energy homeostasis lipid homeostasis phosphate homeostasis cholesterol homeostasis and mineral homeostasis may also be implicated in cancer pathogenesis although accruing research is focused on describing systemic homeostatic mechanisms in cancer biology several research questions remain unaddressed the utilization of recent analytic tools and bioinformatics as systems biology approaches has the potential to address these research gaps therefore in this special issue we will collect articles focusing on the application of bioinformatics and systems biology based investigations of systemic homeostatic mechanisms in malignant diseases both original research and review articles are welcomed however publications based on the analysis on only one database will not be accepted e g tcga

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Advances in Freshwater Decapod Systematics and Biology

2014-07-31

decapods are the largest most prominent and unfortunately most threatened freshwater crustaceans advances in freshwater decapod systematics and biology presents a selection of papers by geographical and domain experts in taxonomy phylogenetics biogeography life history and conservation the major groups of freshwater decapods crabs crayfish prawns and anomurans are all represented this volume includes a chapter commemorating richard bott s influence on freshwater crab decapod biology descriptions of seven new species atyidae aeglidae pseudothelphusidae potamidae and sesarmidae chapters on larval based phylogenetics and molecular clock calibration and reviews of longevity and mortality and of the global conservation status of freshwater decapods this volume both reflects the current state of research and serves as a primer for future work and more integrative decapod research contributors include shane t ahyong klaus anger georgina bond buckup ludwig buckup yixiong cai christian clavijo neil cumberlidge james m furse alberto s gonçalves guillermo guerao alireza keikhosravi sebastian klaus tainã g loureiro célio magalhães fernando l mantelatto jose c e mendoza jérôme prieto silke reuschel vitor q a sanches tobias santl sandro santos fabrizio scarabino christoph d schubart michael türkay ana verdi günter vogt and darren c j yeo

Computation for Humanity

2018-10-03

the exponential progress and accessibility of computing has vastly increased data flows and revolutionized the practice of science engineering and communication computing plays a critical role in advancing research across almost every scientific discipline computation for humanity information technology to advance society is a guide for the creation of services products and tools that facilitate support and enhance progress of humanity toward more sustainable life this book provides a deep understanding of the practical applications of computation to solve human machine problems delivers insight into theoretical approaches in an accessible manner provides a comprehensive overview of computational science and engineering applications in selected disciplines crosses the boundaries between different domains and shows how they interrelate and complement one another focuses on grand challenges and issues that matter for the future of humanity shows different perspectives of computational thinking understanding and reasoning provides a basis for scientific discoveries and enables adopting scientific theories and engineering practices from other disciplines takes a step back to provide a human related abstraction level that is not ultimately seen in pure technological elaborations collections the editors provide a collection of numerous computation related projects that form a foundation from which to cross pollinate between different disciplines and further extensive collaboration they present a clear and profound understanding of computing in today s world and provide fundamental solutions to some of the most pertinent humanity related problems

Oxidative Stress

2012-04-25

since the discovery of free radicals in biological systems researchers have been highly interested in their interaction with biological molecules denoted in 1980 and due to fruitful results and ideas oxidative stress is now appreciated by both basic and applied scientists as an enhanced steady state level of reactive oxygen species with wide range of biological effects this book covers a wide range of aspects and issues related to the field of oxidative stress the association between generation and elimination of reactive species and effects of oxidative stress are also addressed as well as summaries of recent works on the signaling role of reactive species in eukaryotic organisms the readers will gain an overview of our current understanding of homeostasis of reactive species and cellular processes they are involved in as well as useful resources for further reading

Algorithms in Bioinformatics

2011-08-31

this book constitutes the refereed proceedings of the 11th international workshop on algorithms in bioinformatics wabi 2011 held in saarbrücken germany in september 2011 the 30 papers presented were carefully reviewed and selected from 77 submissions they cover aspects of algorithms in bioinformatics computational biology and systems biology

Biological Individuality

2017-05-24

introduction working together on individuality lynn k nyhart and scott lidgard the work of biological individuality concepts

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and contexts scott lidgard and lynn k nyhart cells colonies and clones individuality in the volvocine algae matthew d heron individuality and the control of life cycles beckett sterner discovering the ties that bind cell cell communication and the development of cell sociology andrew s reynolds alternation of generations and individuality 1851 lynn k nyhart and scott lidgard spencer s evolutionary entanglement from liminal individuals to implicit collectivities snait gissis biological individuality and enkapsis from martin heidenhain s synthesiology to the völkisch national community olivier rieppel parasitology zoology and society in france ca 1880 1920 michael a osborne metabolism autonomy and individuality hannah landecker bodily parts in the structure function dialectic ingo brigandt commentaries historical biological and philosophical perspectives distrust that particular intuition resilient essentialisms and empirical challenges in the history of biological individuality james elwick biological individuality a relational reading scott f gilbert philosophical dimensions of individuality alan c love and ingo brigandt

AQA Biology: A Level

2016-05-05

please note this title is suitable for any student studying exam board aqa level a level subject biology first teaching september 2015 first exams june 2017 fully revised and updated for the new linear qualification written and checked by curriculum and specification experts this student book supports and extends students through the new course whilst delivering the maths practical and synoptic skills needed to succeed in the new a levels and beyond the book uses clear straightforward explanations to develop true subject knowledge and allow students to link ideas together while developing essential exam skills

AQA Biology: A Level Year 2

2016-05-05

please note this title is suitable for any student studying exam board aqa level a level year 2 subject biology first teaching september 2015 first exams june 2017 fully revised and updated for the new 2015 specifications written and checked by curriculum and specification experts this student book supports and extends students through the new course while delivering the breadth depth and skills needed to succeed in the new a levels and beyond covers all the content required for the second year of aqa biology a level studies

Bioinformatics Challenges at the Interface of Biology and Computer Science

2016-07-27

this innovative book provides a completely fresh exploration of bioinformatics investigating its complex interrelationship with biology and computer science it approaches bioinformatics from a unique perspective highlighting interdisciplinary gaps that often trap the unwary the book considers how the need for biological databases drove the evolution of bioinformatics it reviews bioinformatics basics including database formats data types and current analysis methods and examines key topics in computer science including data structures identifiers and algorithms reflecting on their use and abuse in bioinformatics bringing these disciplines together this book is an essential read for those who wish to better understand the challenges for bioinformatics at the interface of biology and computer science and how to bridge the gaps it will be an invaluable resource for advanced undergraduate and postgraduate students and for lecturers researchers and professionals with an interest in this fascinating fast moving discipline and the knotty problems that surround it

Agri-environmental Management in Europe: Sustainable Challenges and Solutions - From Policy Interventions to Practical Farm Management

2018-04-04

modern agriculture faces many challenges most crucially food security and the need for sustainable farming systems decisions and actions in the agricultural sector come from government and stakeholder policies and on farm decision making this comprehensive monograph provides a perspective on the current state of agri environmental management in europe from both a policy and practical perspective some of the issues in agriculture discussed are climate change and air pollution biodiversity water use and quality pesticides pathogens flooding and drought energy resources land use soil composition nutrients livestock cropping habitat management and cultural considerations these important issues form the framework of the book with each issue discussed in the context of its history and asking the questions why is it an issue what is the current scientific understanding regarding it and how has policy shaped it the book takes an integrated approach by not just examining these issues separately but examining the whole system in which these problems are manifested at the end

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technologies and solutions which are currently being developed and could be used in the future are discussed and the horizon scanned for future environmental challenges agri environmental management in europe is an authoritative source for both undergraduate and post graduate studies that consider the agri environmental challenges society faces

British Sociology's Lost Biological Roots

2012-01-25

a new and innovative account of british sociology s intellectual origins that uses previously unknown archival resources to show how the field s forgotten roots in a late nineteenth and early twentieth century debate about biology can help us understand both its subsequent development and future potential

The Biology of Freshwater Wetlands

2012-02-09

a combination of low oxygen levels and dense plant canopies present particular challenges for organisms living in this aquatic habitat

Biology and Conservation of Martens, Sables, and Fishers

2012-08-28

mammals in the genus martes are mid sized carnivores of great importance to forest ecosystems this book the successor to martens sables and fishers biology and conservation provides a scientific basis for management and conservation efforts designed to maintain or enhance the populations and habitats of martes species throughout the world the twenty synthesis chapters contained in this book bring together the perspectives and expertise of 63 scientists from twelve countries and are organized by the five key themes of evolution and biogeography population biology and management habitat ecology and management research techniques and conservation recent developments in research technologies such as modeling and genetics biological knowledge about pathogens and parasites and concerns about the potential effects of global warming on the distribution and status of martes populations make new syntheses of these areas especially timely the volume provides an overview of what is known while clarifying initiatives for future research and conservation priorities and will be of interest to mammalogists resource managers applied ecologists and conservation biologists

The Academic Job Search Handbook

2016-03-17

for more than twenty years job seekers have relied on the academic job search handbook for help in their search for faculty positions the new fifth edition provides updated advice and addresses current topics in today s competitive market

Biology and Conservation of Musteloids

2017

the musteloids are the most diverse super family among carnivores ranging from little known exotic and highly endangered species to the popular and familiar and include a large number of introduced invasives they feature terrestrial fossorial arboreal and aquatic members ranging from tenacious predators to frugivorous omnivores span weights from a 100g weasel to 30kg giant otters and express a range of social behaviours from the highly gregarious to the fiercely solitary musteloids are the subjects of extensive cutting edge research from phylogenetics to the evolution of sociality and through to the practical implications of disease epidemiology introduced species management and climate change their diversity and extensive biogeography inform a wide spectrum of ecological theory and conservation practice the editors of this book have used their combined 90 years of experience working on the behaviour and ecology of wild musteloids to draw together a unique network of the world s most successful and knowledgeable experts the book begins with nine review chapters covering hot topics in musteloid biology including evolution disease social communication and management these are followed by twenty extensive case studies providing a range of comprehensive geographic and taxonomic coverage the final chapter synthesises what has been discussed in the book and reflects on the different and diverse conservation needs of musteloids and the wealth of conservation lessons they offer biology and conservation of musteloids provides a conceptual framework for future research and applied conservation management that is suitable for graduate level students as well as professional researchers in musteloid and carnivore ecology and conservation biology it will also be of relevance and use to conservationists and wildlife managers

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Microfluidics in Cell Biology Part A: Microfluidics for multicellular systems

2018-07-20

microfluidics in cell biology part a volume 146 the latest release in the methods in cell biology series continues the legacy of this premier serial with quality chapters authored by leaders in the field unique to this updated volume are sections on cell monolayers spheroids collective migration in microtubes leukocyte adhesion dynamics on endothelial monolayers under flow constrained spheroid for perfusion culture cells in droplet arrays heart on chips kidney on chips liver on chips and hepatic immune responses gut on chips 3d microvascular model based lymphoma model blood brain barrier on chips multi organ on a chip for pharmacokinetic analysis cancer immunotherapy on chips and more contains contributions from experts in the field from across the globe covers a wide array of topics on both mitosis and meiosis includes relevant analysis based topics

Alternative Systems for Poultry

2012

recent interest in how poultry are housed and managed in order to ensure profitability sustainability and good levels of animal welfare are challenging issues that commercial poultry keepers face particularly where legislation is bringing about legal requirements for housing this book compares and contrasts alternative housing with conventional and traditional systems for commercial poultry laying hens meat chickens turkeys waterfowl and gamebirds with regards to welfare disease health nutrition sustainability and genotype environment interaction

Ecological Public Health

2012

ecological public health demonstrates that although public health medicine is useful and honourable a radical rethink is required and is indeed starting to emerge it aims to revitalize thinking about public health in terms of ecology and calls for a concerted combined effort from existing disciplines to bring about reform

AQA Biology: A Level Year 1 and AS

2016-02-18

please note this title is suitable for any student studying exam board aqa level as level subject biology first teaching september 2015 first exams june 2016 fully revised and updated for the new linear qualification written and checked by curriculum and specification experts this student book supports and extends students through the new course whilst delivering the maths practical and synoptic skills needed to succeed in the new a levels and beyond the book uses clear straightforward explanations to develop true subject knowledge and allow students to link ideas together while developing essential exam skills

Hybrid Systems Biology

2019-08-01

this book constitutes the thoroughly refereed proceedings of the 6th international workshop on hybrid systems biology hsb 2019 held in prague czech republic in april 2019 the 8 full papers presented in this book together with 1 short paper and 3 invited papers were carefully reviewed and selected from 13 submissions they cover topics such as modeling and analysis of metabolic signaling and genetic regulatory networks in living cells models of tissues organs physiological models models and methods coping with incomplete uncertain and heterogeneous information including learning for biological systems parametric synthesis and inference stochastic and hybrid models in biology hierarchical systems for multi scale multi domain analysis abstraction approximation discretization and model reduction techniques modeling analysis and design for synthetic biology cyber biological systems and biomedical studies e g therapies teleoperation game theoretical frameworks and population models in biology e g mixed effects and bayesian modeling biological applications of quantitative and formal analysis techniques e g reachability computation model checking abstract interpretation bifurcation theory stability and sensitivity analysis efficient techniques for combined and heterogeneous stochastic deterministic spatial non spatial simulations for biological models modeling languages and logics for biological systems with related analysis and simulation tools and control architectures of biological systems including biology in the loop systems and bio robotics

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