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Plant Breeding in the Omics Era Elsevier
This book is a ready reference on recent innovations in dryland agriculture and reinforces the understanding for its utilization to develop environmentally sustainable and profitable food production systems. It covers the basic concepts and history, components and elements, breeding and modelling efforts, and potential benefits, experiences, challenges and innovations relevant to agriculture in dryland areas around world.
After the Green Revolution Academic Press
'The Green Revolution' of the 60's and 70's produced immense gains in food cereal production in the Third World. But there are huge problems in the 'post-revolutionary' era: farmers with small or marginal holdings have benefited less than wealthier farmers; intensive mono-cropping has made production more susceptible to environmental stresses and shocks. Now there is evidence of diminishing returns from intensive and intensively chemical agricultural production. What is needed is a new approach, equally revolutionary, but different in its ideas and style. The authors set out what they mean by 'sustainable' agriculture in the new era and look at the effects of international economic restraints and of national policies on the kind of development they see as necessary. They chart a path for sustainable livelihoods for Third World farmers enmeshed by forces outside their control. They describe methods of evaluating and resolving the tough trade-offs all levels of intervention, from international trade down to the individual farm. This book cannot provide all the answers, but it does indicate what international conditions we need to be aware of, what national policies we need to advocate and what approaches at the local level we need to adopt to ensure the goal of agricultural sustainability. Originally published in 1990
Zoobenthos, Ecology and Conservation Springer Science & Business Media
The objective of this book is to provide up-to-date coverage of some of the emerging developments in the field of integrated DNA biochips. It will prove a useful source of information for researchers in the field and for those who are just entering the field of biochip research.
Global Change, Energy Issues and Regulation Policies National Academies Press
This open access book summarizes peer-reviewed articles and the abstracts of oral and poster presentations given during the YOUMARES 9 conference which took place in Oldenburg, Germany, in September 2018. The aims of this book are to summarize state-of-the-art knowledge in marine sciences and to inspire scientists of all career stages in the development of further research. These conferences are organized by and for young marine researchers. Qualified early-career researchers, who moderated topical sessions during the conference, contributed literature reviews on specific topics within their research field.
Conducting Research in Conservation Springer
This book contains the invited and contributed papers of the 5th Workshop on Sulfur Transport and Assimilation in Plants, a joined European Commission (COST Action 829) and OECD meeting hosted at the Ecole Nationale Sup é rieure Agronomique in Montpellier (France) from April 11 to 14, 2002. The meeting was co-organized by the ENSA-Montpellier (France), the University of Graz (Austria), the University of Groningen (The Netherlands), Rothamsted Research, (United Kingdom), Institute of Plant Nutrition and Soil Science, Braunschweig (Germany), the Agricultural Biotechnical Center of G ö d ö ll ö (Hungary), Albert-Ludwigs-University Freiburg (Germany) and the University of Chiba (Japan).
Natural Compounds, Nanotechnology and Novel Synthetic Sources Springer
Ecological Biomonitoring, Volume 58, the latest release in the Advances in Ecological Research series, is the first part of a thematic on ecological biomonitoring, including specific chapters that cover Aquatic volatile metabolomics – using trace gases to examine ecological processes, Next generation approaches to rapid monitoring Bio-aerosol and the link between human health and environmental microbiology, NGB in Canadian wetlands, Monitoring the biodiversity and functioning of terrestrial systems via high resolution trace gas fluxes, and Computational approaches to gathering biomonitoring data from social media platforms: a superior solution to next generation biomonitoring challenges. Provides information that relates to a thorough understanding of the field Deals with topical and important reviews on the physiology, populations and communities of plants and animals
A Tool for Managing Aquatic Life Uses for Urban Streams (Research Digest) Springer Science & Business Media
The third edition of Ecology and Classification of North American Freshwater Invertebrates continues the tradition of in-depth coverage of the biology, ecology, phylogeny, and identification of freshwater invertebrates from the USA and Canada. This text serves as an authoritative single source for a broad coverage of the anatomy, physiology, ecology, and phylogeny of all major groups of invertebrates in inland waters of North America, north of Mexico.
Guidelines to Evaluate Side-effects of Plant Protection Products to Non-target Arthropods World Scientific
Investigation on biobased nanomaterials has provided new insights into the rapidly advancing fields of the biomedical and environmental sciences by showing how these nanomaterials are effective in biomedicine and environmental remediation. These particles hold tremendous prospective applications, and are likely to become the next generation of particles in these areas. As such, research is ongoing and the data generated should have the potential for a sustainable future in both the environmental and biomedical fields. This book presents important findings on the role of and identification of novel applications of biobased nanomaterials. Unlike other books in this field, this book focuses entirely on sustainable application and remediation in biomedicine and environmental science. The chapters are written in such a

way as to make them accessible to the reader, and furthermore, the volume can be readily adopted as a reference, or used as a guide for further research. This project was based on recent research (the last 5 years) and developed through an extensive literature search. The editors have also compiled some advanced, outstanding texts that should be of benefit to graduate students in their research.

Methods in Cellular Imaging Springer

This WERF sponsored research addresses the utility of bioassessment for managing aquatic life uses in urban and/or urbanizing catchments. Heavily urbanized catchments present a problem for facilities and water quality managers struggling to balance the socio-economic needs of urban areas with aquatic life use standards. Most standards do not recognize the limitations on achievable biological condition in urban areas. This research specifically defines a process for developing alternative biological benchmarks for aquatic life use in urban catchments. This research was conducted across three distinct climatic regions and describes a threestep process: 1) developing a primary urbanization gradient, 2) assembling an appropriate urban biological index, and 3) defining a biological potential that describes the highest biological condition currently achieved along the urban gradient. The primary urban gradient is developed using simple landscape and socio-economic measures of urbanization. Alternative urban gradients, comparable to the primary gradient, are presented that can be used as data availability and resources require. The primary biological indicator is developed using a subset of commonly collected biological metrics. Lastly, biological potential is defined using quantile regression to characterize the upper boundary on biological condition observed along the primary urban gradient. This approach establishes empirically defined and realistic aquatic life use benchmarks for urbanized catchments, and describes a process by which the aquatic life use status of waterbodies in urbanized catchments can be placed in a realistic context. Guidance on implementation is provided for WERF subscribers for their particular urban areas.

The Psychology of Human Sexuality Springer

Up until now the dominant view of condensed matter physics has been that of an ?electrostatic MECCANO? (erector set, for Americans). This book is the first systematic attempt to consider the full quantum-electrodynamical interaction (QED), thus greatly enriching the possible dynamical mechanisms that operate in the construction of the wonderful variety of condensed matter systems, including life itself.A new paradigm is emerging, replacing the ?electrostatic MECCANO? with an ?electrodynamic NETWORK,? which builds condensed matter through the long range (as opposed to the ?short range? nature of the usual electrostatic forces) electrodynamical interaction; this interaction creates ?coherent configurations? of the elementary systems (atoms and molecules), which oscillate in phase with a coherent macroscopic (and classical) electromagnetic field that, through the strong interaction with matter, remains trapped inside it.

Sulfur Transport and Assimilation in Plants Routledge

Advances in technology have revolutionized the development of light microscopy techniques in biomedical research, thus improving visualization of the microstructure of cells and tissues under physiological conditions. Fluorescence microscopy methods are non-contact and non-invasive and provide high spatial and temporal resolution that other laboratory techniques cannot. This well-illustrated book targets graduate students and scientists who are new to the state-of-the-art fluorescence microscopy techniques used in biological and clinical imaging. It explains basic concepts and imaging procedures for wide-field, confocal, multiphoton excitation, fluorescence resonance energy transfer (FRET), lifetime imaging (FLIM), spectral imaging, fluorescence recovery after photobleaching (FRAP), optical tweezers, total internal reflection, high spatial resolution atomic force microscopy (AFM), and bioluminescence imaging for gene expression. The usage of these techniques in various biological applications, including calcium, pH, membrane potential, mitochondrial signaling, protein-protein interactions under various physiological conditions, and deep tissue imaging, is clearly presented. The authors describe the approaches to selecting epifluorescence microscopy, the detectors, and the image acquisition and processing software for different biological applications. Step-by-step directions on preparing different digital formats for light microscopy images on websites are also provided.

The Geomagnetic Field and Life Hong Kong University Press

Gathering some 90 entries from the Encyclopedia of Sustainability Science and Technology, this book covers animal breeding and genetics for food, crop science and technology, ocean farming and sustainable aquaculture, transgenic livestock for food and more.

References no. 40374 – 44289 / AAS-ZVE Springer Science & Business Media

This book compiles the latest information in the field of antibacterial discovery, especially with regard to the looming threat of multi-drug resistance. The respective chapters highlight the discovery of new antibacterial and anti-infective compounds derived from microbes, plants, and other natural sources. The potential applications of nanotechnology to the fields of antibacterial discovery and drug delivery are also discussed, and one section of the book is dedicated to the use of computational tools and metagenomics in antibiotic drug discovery. Techniques for efficient drug delivery are also covered. The book provides a comprehensive overview of the progress made in both antibacterial discovery and delivery, making it a valuable resource for academic researchers, as well as those working in the pharmaceutical industry.

Standard Methods for Apis Mellifera Research Springer Science & Business Media

The National Human Monitoring Program (NHMP) identifies concentrations of specific chemicals in human tissues, including toxicologic testing and risk assessment determinations. This volume evaluates the current activities of the NHMP; identifies important scientific, technical, and programmatic issues; and makes recommendations regarding the design of the program and use of its products.

Biobased Nanotechnology for Green Applications Academic Press

The field of health psychology has exploded in the last decade due to progress identifying physiological mechanisms by which psychological, social, and behavioral factors can put people's health and well-being at risk. The Handbook of Physiological Research Methods in Health Psychology provides thorough, state-of-the-art, and user-friendly coverage of basic techniques for measurement of physiological variables in health psychology research. It is designed to serve as a primary reference source for researchers and students interested in expanding their research to consider a biopsychosocial approach. Chapters addressing key physiological measures have been written by international experts with an eye towards documenting essential information that must be considered in order to accurately and reliably measure biological samples. The book is not intended to be a lab manual of specific biomedical techniques, nor is it intended to provide extensive physiological or anatomical information. Rather, it takes the approach most useful for a non-specialist who seeks guidance on how and when to collect biological measures but who will have the actual samples assayed elsewhere. The Handbook can be thought of as a primer or a gateway book for researchers new to the area of physiological measurement and for readers who would like to better understand the meaning of physiological measures they encounter in research reports.

Monitoring Human Tissues for Toxic Substances National Academies Press

Human Biomonitoring for Environmental ChemicalsNational

Academies Press

Regulation, Interaction and Signaling International Water Assn

Collaborations of physicians and researchers with industry can provide valuable benefits to society, particularly in the translation of basic scientific discoveries to new therapies and products. Recent reports and news stories have, however, documented disturbing examples of relationships and practices that put at risk the integrity of medical research, the objectivity of professional education, the quality of patient care, the soundness of clinical practice guidelines, and the public's trust in medicine. Conflict of Interest in Medical Research, Education, and Practice provides a comprehensive look at conflict of interest in medicine. It offers principles to inform the design of policies to identify, limit, and manage conflicts of interest without damaging constructive collaboration with industry. It calls for both short-term actions and long-term commitments by institutions and individuals, including leaders of academic medical centers, professional societies, patient advocacy groups, government agencies, and drug, device, and pharmaceutical companies. Failure of the medical community to take convincing action on conflicts of interest invites additional legislative or regulatory measures that may be overly broad or unduly burdensome. Conflict of Interest in Medical Research, Education, and Practice makes several recommendations for strengthening conflict of interest policies and curbing relationships that create risks with little benefit. The book will serve as an invaluable resource for individuals and organizations committed to high ethical standards in all realms of medicine.

A Handbook of Sampling Methods Routledge

The theme of the book is highly relevant to the current emphasis on environment conservation, with focus on native biodiversity conservation in agro-ecosystems. The current impetus being given to organic farming and export oriented agri-hortculture in the country calls for access to relevant scientific knowledge base among the stakeholders. Research on biological pest control is more than a century old in India. Egg parasitoids, which are mainly tiny wasps, led by the family Trichogrammatidae, are the most widely utilized natural enemies for biological control globally. Over thirty countries are using these bioagents to protect over 10 million hectares of agricultural and forestry crops from many important insect pests. The book comprises 18 chapters, which are arranged in continuum, commencing with basic aspects of knowledge and ending in their utilization targets. The chapters cover broadly four areas: bio-diversity and natural occurrence of egg parasitoids, behaviour and adaptation of egg parasitoids, mass production and safe use of egg parasitoids and utilisation of egg parasitoids in different crop ecosystems. Some of the chapters cater to the needs of discipline-wise update on the current R&D scenario-like insect taxonomy, biotechnology, mass-production and quality control of the target organisms - egg-parasitoids, which are useful for laboratory scientists/researchers. There are also chapters devoted to knowledge status and scope for utilization of egg parasitoids in different target crops, which cater to requirements of field entomologists and extensionists for use in their tasks of guiding farmers/local guides. The book is different in approach, method, structure and content and ensures holistic coverage of the topic. The chapters are written by active and experienced workers in different crops and aspects and co-edited by four very experienced experts who have over three decades R&D experience in the subject. All the authors have uniformly focussed on comprehensive literature study and critical identification of knowledge gaps for future R&D, thus the book is novel in outlook, up-to-date in content and comprehensive in coverage of themes. This book will be useful for supplementary reading for MSc Agriculture and PhD Agriculture students, besides MSc/PhD research students in Zoology/Environmental Biology, who are specialising in Entomology. It would also serve as a very useful reference book for researchers worldwide, though focus is also there on Indian work. It addresses the special information needs of students and faculty, besides practitioners and extensionists in the Australasia and Africa regions and thus not limited to the R&D knowledge generated in developed countries.

Techniques in Microbial Ecology Springer Science & Business Media

This book deals with the ecology of rivers and streams in the Oriental Region, and describes the composition of their unique fauna - especially the diverse array of animals which live on and among the bottom sediments. Dichotomous keys are provided as an aid to the identification of these animals, and the book is illustrated by over 100 pages of line drawings and maps. Special emphasis is given to the impact of human activities on streams and rivers, and the book concludes with a discussion of conservation and management options for these endangered habitats.

Photosynthesis Bibliography Springer Nature

This open access book presents the proceedings volume of the YOUMARES 8 conference, which took place in Kiel, Germany, in September 2017, supported by the German Association for Marine Sciences (DGM). The YOUMARES conference series is entirely bottom-up organized by and for YOUng MARine RESearchers. Qualified early career scientists moderated the scientific sessions during the conference and provided literature reviews on aspects of their research field. These reviews and the presenters' conference abstracts are compiled here. Thus, this book discusses highly topical fields of marine research and aims to act as a source of knowledge and inspiration for further reading and research. This work was published by Saint Philip Street Press pursuant to a Creative Commons license permitting commercial use. All rights not granted by the work's license are retained by the author or authors.