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TAPIA KIERA

Biocalculus: Calculus, Probability, and Statistics for the Life Sciences World Scientific Publishing
This volume examines how and to what extent security officers make use of`legal tools. The work identifies these tools and draws on two case-study sites to illustrate how security officers make use of them as well as how they fit in broader security systems to secure compliance. The study also examines the occupational culture of security officers and links them into the broader systems of security that operate to police nodes of governance. The book provides insights for researchers and policy-makers seeking to develop policy for the expanding private security industry.

An Introduction to Molecular Ecology Springer Nature
This publication is unique among a number of books on cyanobacteria because it focuses on the bioenergetics of these widespread organisms which are the evolutionary prerequisite for the development of all higher forms of life on our "blue" planet. The book primarily addresses questions of energy conversion by the fundamental bioenergetic processes: (oxygenic) photosynthesis, (aerobic) respiration, and (anaerobic) fermentation which uniquely occur together in these prokaryotic cells. Thermophilic cyanobacteria offer the most suitable material for high resolution structure analyses of Photosystem I and II and other electron transport complexes by X-ray crystallography (for example, at present the structure of Photosystem II at atomic resolution is only known for these organisms). These achievements during the last decade represent a milestone in our understanding of the complexes which are crucial for solar energy exploitation through photosynthetic water splitting. The present work represents an ambitious attempt to achieve the goal of a synoptic state-of-the-art picture by casting together the mosaics of detailed knowledge described by leading experts in the field. It contains 24 chapters written by 35 authors from Europe, USA, India and Japan. The book is aimed at reaching a broad audience ranging from students to experienced scientists. The editors wish all readers a pleasant and stimulating journey through the fascinating “world” of the bioenergetics of cyanobacteria and sincerely hope that this book will not only be of great value for the experts but also entice young people into this exciting research area with the aim to address successfully the challenging problems of high relevance that are still waiting for a satisfactory answer.

Probabilistic Seismic Hazard and Risk Analysis Oxford University Press
Designed as a text not only for students and researchers, but anyone interested in green technology, Advanced Biofuels and Bioproducts offers the reader a vast overview of the state-of-the-art in renewable energies. The typical chapter sets out to explain the fundamentals of a new technology as well as providing its context in the greater field. With contributions from nearly 100 leading researchers across the globe, the text serves as an important and timely look into this rapidly expanding field. The 40 chapters that comprise Advanced Biofuels and Bioproducts are handily organized into the following 8 sections: · Introduction and Brazil's biofuel success · Smokeless biomass pyrolysis for advanced biofuels production and global biochar carbon sequestration · Cellulosic Biofuels · Photobiological production of advanced biofuels with synthetic biology · Lipids-based biodiesels · Life-cycle energy and economics analysis · High-value algal products and biomethane · Electrofuels

Bacteriophages McGraw-Hill Companies
A Decade of Extraordinary Growth The past decade has brought a surge of growth in the technologies for digital color imaging, multidimensional signal processing, and visual scene analysis. These advances have been crucial to developing new camera-driven applications and commercial products in digital photography. Single-Sensor Imaging: Methods and Applications for Digital Cameras embraces this extraordinary progress, comprehensively covering state-of-the-art systems, processing techniques, and emerging applications. Experts Address Challenges and Trends Single-Sensor Imaging: Methods and Applications for Digital Cameras presents leading experts elucidating their own accomplishments in developing the technologies reshaping this field. The editor invited renowned authorities to address specific research challenges and recent trends in their particular areas of expertise. The book discusses single-sensor digital color imaging fundamentals, including reusable embedded software platform, digital camera image processing chain, optical filter and color filter array designs. It also details the latest techniques and approaches in contemporary and traditional digital camera color image processing and analysis for various sophisticated applications, including: Demosaicking and color restoration White balancing and color transfer Color and exposure correction Image denoising and color enhancement Image compression and storage formats Red-eye detection and removal Image resizing Video-demosaicking and superresolution imaging Image and video stabilization A Solid Foundation of Knowledge to Solve Problems Single-Sensor Imaging: Methods and Applications for Digital Cameras builds a strong fundamental understanding of theory and methods for solving many of today’s most interesting and challenging problems in digital color image and video acquisition, analysis, processing, and storage. A broad survey of the existing solutions and relevant literature makes this book a valuable resource both for researchers and those applying rapidly evolving digital camera technologies.

Proteins D. Hunt; Distributed in U.S.A. by Rainbow Gardens
Both inter- and intraspecific approaches were employed in a series of studies to determine evolutionary patterns and processes within the Tillandsia fasciculata species complex, an epiphytic flowering plant in the pineapple family (Bromeliaceae). The T. fasciculata complex is a taxonomically challenging group due to a "mosaic" distribution of morphological characters that make it difficult to accurately diagnose its members across the Caribbean Basin - a biodiversity hotspot. The main goals of this

study are to: 1) evaluate the circumscription and phylogenetic position of the T. fasciculata complex; 2) examine the genetic variation and structure of populations from Florida and the Bahamas, and 3) model the past, present, and future occurrence of T. fasciculata in geographic space. For phylogenetic reconstruction both taxon and loci sampling of the T. fasciculata group were increased substantially over previously published studies. Concatenated data incorporating six ptDNA regions (atpB-rbcL, matK, ndhJ-trnF, psbD-trnT, rpl14-rpl36 , rps16), rDNA (ETS) and a single low-copy nuclear gene (PRK) sequenced from 27 of the 33 taxa in the T. fasciculata complex clarified some taxonomic questions pertaining to the group, but others remain unresolved. Geography, more than morphology, plays an important role in delimiting several problematic taxa. For population genetic studies, eight microsatellite loci (simple sequence repeats) were scored, and we identified at least three population clusters in the T. fasciculata group across its northern limit in Florida and the Bahamas (n=18 sites). The most genetically distinct population consists of the natural hybrid T. ×floridana and one of its purported parents, T. bartramii. Previously, relatedness of T. ×floridana and T. bartrami was based on speculation. Species distribution models were generated using MaxEnt for eight bioclimatic layers based on MIROC-ESM from WorldClim, harmonized world soil data, and altitude data layers across past (last interglacial, last glacial maximum, mid-Holocene), current, and future (2050 and 2070). Jackknife results show that the most important single environmental data layer across taxa and across climatic conditions is soil data. Paleoclimatic data shed light on possible areas where some T. fasciculata varieties arose, and models for the future indicate areas will still be available for the persistence of these plants.

Brassinosteroids in Plant Developmental Biology and Stress Tolerance CABI

This volume provides comprehensive and detailed protocols that discuss proteomic techniques, plant endosomes, and isolation of organelles and subcellular fractions. The chapters in this book explore numerous plant species and cover topics, such as isolation and purity assessment of membranes from Norway spruce; proteomic analysis of nuclei; analyzing the vacuolar membrane (tonoplast) proteome; isoforms of a thylakoid-bound protein; assay of plasma membrane H+-ATPase in plant tissue under abiotic stresses; and identification and characterization of plant membrane proteins using ARAMEMNON. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Practical and thorough, Plant Membrane Proteomics: Methods and Protocols is a valuable resource that promotes the use of plant membrane proteomics to develop the future of the field.

Interview Questions and Answers Guyer Partners

This book examines developments in statistical methodology and the challenges that followed rapidly improving sequencing technologies.Includes articles encompassing theoretical works and hands-on tutorials, as well as many reviews with key biological insight."

Security Officers and Policing John Wiley & Sons

Cyanobacteria constitute the most widely distributed group of photosynthetic prokaryotes found in almost all realms of the earth and play an important role in Earth’s nitrogen and carbon cycle. The gradual transformation from reducing atmosphere to oxidizing atmosphere was a turning point in the evolutionary history of the earth and made conditions for present life forms possible. Cyanobacteria: From Basic Science to Applications is the first reference volume that comprehensively discusses all aspects of cyanobacteria, including the diverse mechanisms of cyanobacteria for the advancement of cyanobacterial abilities, towards higher biofuel productivity, enhanced tolerance to environmental stress and bioactive compounds and potential for biofertilizers. Describes cyanobacterial diversity, stress biology, and biotechnological aspects of cyanobacteria Explores the global importance of cyanobacteria Provides a broad compilation of research that deals with cyanobacterial stress responses in both controlled laboratory conditions as well as in their natural environment

Advanced Biofuels and Bioproducts CRC Press

The photosynthetic fixation of carbon dioxide into organic compounds is mediated by the enzyme ribulose 1,S-bisphosphate (RuBP) carboxylase. The diversity of current research on this protein attests to its central role in biomass productivity, and suggests the importance of a timely and broadly based review. This Symposium was the first devoted exclusively to RuBP carboxylase and was attended by agronomists, plant physiologists, biochemists, molecular biologists, and crystallographers. Special efforts were made to involve young scientists in addition to established investigators. It is a pleasure to acknowledge financial support provided by the Department of Energy, the United States Department of Agricul ture, and the National Science Foundation, and the valued assistance of agency representatives, Drs. Joe Key, Robert Rabson, Elijah Romanoff, and Donald Senich. Thanks are due to Mrs. Margaret Dienes, without whose editorial skills this volume could not have been produced, and to Mrs. Helen Kondratuk as Symposium Coordinator. Finally, we wish to record our indebtedness to Dr. Alexander Hollaender for his tireless efforts in support of all aspects of this Symposium.

Evolutionary Genomics Cambridge University Press

Photosynthesis is a process on which virtually all life on Earth depends. To answer the basic questions at all levels of complexity, from molecules to ecosystems, and to establish correlations and interactions between these levels, photosynthesis research - perhaps more than any other discipline in biology - requires a multidisciplinary approach. Congresses probably provide the only forums where progress throughout the whole field can be overviewed. The Congress proceedings give faithful pictures of recent advances in photosynthesis research and outline trends and perspectives in all areas, ranging from molecular events to aspects of photosynthesis on the global scale. The Proceedings Book, a set of 4 (or 5) volumes, is traditionally highly recognized and intensely quoted in the literature, and is found on the shelves of most senior scientists in the field and in all major libraries.

Principles of Microeconomics 2e Springer Science & Business Media

Extensive effort is being made globally to develop various biofuels as an inexhaustible and renewable energy source. Biofuels are viewed as promising alternatives to conventional fossil fuels because they have the potential to eliminate major environmental problems such as global warming and climate change created by fossil fuels. Among the still-developing biofuel technologies, biodiesel production from algae offers a good prospect for large-scale practical use, considering the fact that algae are capable of producing much more yield than other biofuels such as corn and soybean crops. Although research on algae-based biofuel is still in its developing stage, extensive work on laboratory- and pilot-scale algae-harvesting systems with promising prospects has been reported. This chapter presents a discussion of the literature review of recent advances in algal

biomass harvesting. The chapter focuses on stability and separability of algae and algae-harvesting methods. Challenges and prospects of algae harvesting are also outlined. The review aims to provide useful information for future development of efficient and commercially viable algal biodiesel production.
Computational Inference of Protein Structure and Function from Microbial Genomes and Metagenomes Elsevier Inc. Chapters
Brassinosteroids in Plant Developmental Biology and Stress Tolerance presents the mechanisms of brassinosteroid-regulated plant developmental biology and stress tolerance that cover various biochemical, physiological, genetic and molecular studies. As unprecedented climate change threatens global food security, studies reveal that BRs could not only protect plants from stresses to ensure food security, but also reduce toxic compounds in edible plant parts. As the utilization of BRs in modern agriculture is of great significance in the context of global climate change, this book presents key information on how to develop eco-friendly growth regulators and understand the importance of brassinosteroids in safe food production. Presents the multifaceted roles of brassinosteroids as phytohormones in plant growth, development and response to biotic and/or abiotic stresses Unveils the physiological and molecular mechanisms controlling plant stress response to biotic and abiotic stress Discusses developmental processes relating to environmental adaptations that are mediated by brassinosteroids Brings together recent works of experts studying brassinosteroid crosstalk with other signals, including hormones, sugars, redox and light signals
Photosynthesis : Frontiers Media SA
This book is based on a workshop on biogeography of freshwater algae held during the Fifth International Phycological Congress in China 1994. A group of outstanding specialists covering widely different approaches to the subject have been brought together, and this collection of their contributions forms a unique volume: there is no other book on the subject. It thus fills an evident gap in the phycological literature, and will be of major interest to researchers and teachers within phycology, limnology, and evolutionary biology. However, it may also be useful in courses for advanced students.
Practical Security Training Humana Press
The mosses (Bryophatea, Musci) are a diverse and widely distributed group of land plants. Mosses are attractive experimental plants because they exhibit the traditional attributes of good model systems (Le. ease of growth & maintenance, fast generation time, and amenable genetics) with the added advantage of a haploid gametophyte that allowed developmental mutants to be recovered with relative ease. In addition, mosses with the ability to tolerate extreme environmental conditions offer realistic models for the analysis of environmental stress-tolerance; particularly when compared to tracheophytes such as Arabidopsis thaliana in which these important plant phenotypes are either not clearly expressed or entirely lacking. And, in one of the most exciting developments in Plant Biology, efficient homologous recombination occurs in the moss Physcomitrella patens. The ability to perform efficient homologous recombination (Le. gene knock-outs) in P. patens is at present unique amongst all plants and represents an extremely powerful technique for the functional analysis of many plant genes. Over the past 5 years, a world-wide community of moss researchers has evolved. A highly successful "Moss" conference has been held annually (l998-Mumbai, India; 1999-Carbondale, IL, USA; 2000-Villars, Switzerland; 200l-0kazaki, Japan; 2002-Ambleside, UK; 2003-St. Louis, MO, USA) with "Moss 2004" planned to be held in Frieburg Germany. These conferences have been instrumental in the creation & development of strong collaborative ties, and the free exchange of both ideas and materials.
Subcellular Compartmentalization of Plant Antioxidants and ROS Generating Systems Springer Science & Business Media
This first complete resource on photosensory receptors from bacteria, plants and animals compiles the data on all known classes of photoreceptors, creating a must-have reference for students and researchers for many years to come. Among the editors are the current and a former president of the American Society for Photobiology.
Disaster risk reduction in school curricula: case studies from thirty countries Humana
"An overview of the essential principles of seismic hazard and risk analysis, including advanced topics, worked examples and problem sets. (20) An overview of the essential principles and procedures of seismic hazard and risk analysis, of interest to earth scientists and engineers. Coverage includes state-of-the-art procedures, advanced topics, and future research directions. Each chapter includes worked examples and problem sets, with solutions and computer codes provided online. (46/341) Probabilistic Seismic Hazard and Risk Analyses underpin the loadings prescribed by engineering design codes, the decisions by asset owners to retrofit structures, the pricing of insurance policies, and many other activities. This is a comprehensive overview of the principles and procedures behind seismic hazard and risk analysis. It enables readers to understand best practises and future research directions. Early chapters cover the essential elements and concepts of seismic hazard and risk analysis, while later chapters shift focus to more advanced topics. Each chapter includes worked examples and problem sets for which full solutions are provided online. Appendices provide relevant background in probability and statistics. Computer codes are also available online to help replicate specific calculations and demonstrate the implementation of various methods. This is a valuable reference for upper level students and practitioners in civil engineering, and earth scientists interested in engineering seismology. (143)"--
Pilosocereus (Cactaceae) Springer Science & Business Media
A fresh approach to the interdisciplinary humanities course that takes a strong multicultural approach to the visual and performing arts. Organized thematically, the text covers painting, printmaking, sculpture, camera arts, architecture, music, and drama. History is taught from the perspective of the individual - artists come alive as students discover the artists' backgrounds and where they fit in the social history and cultural context. The text builds an appreciation for the language of the arts with discussion of techniques, vocabulary, and definitions.
Handbook of Photosensory Receptors Academic Press
Revised edition of: Introduction to molecular ecology / Trevor J. C. Beebee, Graham Rowe. 2008. 2nd ed.
Single-Sensor Imaging John Wiley & Sons
In the modern world, to meet increasing energy demands we need to develop new technologies allowing us to use eco-friendly carbon-neutral energy sources. Solar energy as the most promising renewable source could be the way to solve that problem, but it is variable depending on day time and season. From this side, the understanding of photosynthesis process could be of significant help for us to develop effective strategies of solar energy capturing, conversion, and storage. Plants, algae, and cyanobacteria perform photosynthesis, annually producing around 100 billion tons of dry biomass. Presently, the detailed studies of photosynthetic system structure make functional investigations of the photosynthetic process available, allowing scientists to construct artificial systems for solar energy transduction. This book summarizes exciting achievements in

understanding of photosynthetic structures and mechanisms of this process made by world leaders in photosynthesis field, and contains information about modern ideas in development of revolutionary new technologies of energy conversion. Organized according to the natural sequence of events occurring during photosynthesis, the book includes information of both photosynthetic structures and mechanisms and its applications in bioenergetics issues.

Systematics of the Tillandsia Fasciculata Complex (Bromeliaceae) Academic Press

Proteins: Structure and Function is a comprehensive introduction to the study of proteins and their importance to modern biochemistry. Each chapter addresses the structure and function of proteins with a definitive theme designed to enhance student understanding. Opening with a brief historical overview of the subject the book moves on to discuss the ‘building blocks’ of proteins and their respective chemical and physical properties. Later chapters explore experimental and computational methods of comparing proteins, methods of protein purification and protein folding and stability. The latest developments in the field are included and key concepts introduced in a user-friendly way to ensure that students are able to grasp the essentials before moving on to more advanced study and analysis of proteins. An invaluable resource for students of Biochemistry, Molecular Biology, Medicine and Chemistry providing a modern approach to the subject of Proteins.