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 Combination Drug Delivery Approach as an Effective Therapy for Various Diseases
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Snakes of the World Academic Press

The public has a great desire for products that prevent the annoyance of biting insects and ticks, but that desire does not always translate into sensible use of those products. Insect Repellents Handbook, Second Edition summarizes evidence-based information on insect repellents to inform decisions by those involved with insect repellent research, *Asian Atmospheric Pollution* CRC Press
 This book reviews recent advances in the molecular and infection biology, pathology, and molecular epidemiology of Mycobacterium tuberculosis, as well as the identification and validation of novel molecular drug targets for the treatment of this mycobacterial disease. Despite being completely curable, tuberculosis is still one of the leading global causes of death. M. tuberculosis, the causative organism – one of the smartest pathogens known – adopts highly intelligent strategies for survival and pathogenesis. Presenting a wealth of information on the molecular infection biology of M. tuberculosis, as well as nontuberculous mycobacteria (NTM), the book provides an overview of the functional role of the PE/PPE group of proteins, which is exclusive to the genus Mycobacteria, of host-pathogen interactions, and virulence. It also explores the pathogenesis of the infection, pathology, epidemiology, and diagnosis of NTM. Finally it discusses current and novel approaches in vaccine development against tuberculosis, including the role of nanotechnology. With state-of-the-art contributions from experts in the respective domains, this book is an informative resource for practitioners as well as medical postgraduate students and researchers.

Recent Advances and Visions for the Future Elsevier Health Sciences

Volume 64 in the internationally acclaimed *Advances in Clinical Chemistry* contains chapters authored by world renowned clinical laboratory scientists, physicians and research scientists. The serial provides the latest and most up-to-date technologies related to the field of Clinical Chemistry and is the benchmark for novel analytical approaches in the clinical laboratory. Expertise of international contributors Latest cutting-edge technologies Comprehensive in scope

Flights of a bumblebee Taylor & Francis

This book covers broad areas in the conservation of microorganisms. It addresses the short, medium and long-term preservation of agriculturally important microorganisms, as well as culture collections and their roles. The respective chapters

address topics such as conventional approaches to bacterial, fungal and algal preservation, as well as methods and strategies for preserving recalcitrant microorganisms. Readers will also find the latest insights into the preservation of vesicular-arbuscular (VA) fungi and ecology, diversity and conservation of endophytes, and entamopathogenic fungi. Microbes of animal and dairy origin, their preservation and biosafety issues are also explored. Microorganisms are the silent and unseen majority of life on Earth, and are characterized by a high degree of genetic and metabolic diversity. It is well documented that no branch of science or society is unaffected by microbial interventions. Researchers have documented microorganisms from such extreme and unique environments as deserts and hydrothermal vents, and with specific traits that are currently being exploited in agriculture, industry, medicine and biotechnological applications. Such great potential can only be found in microorganisms. The aim of this book – the first entirely devoted to the conservation of microorganisms, and to regulatory mechanisms for access and benefits sharing as per Biological Diversity (BD) Act 2002 – is to promote awareness of our world's microbial wealth, and to introduce readers to strategies and methodologies for the conservation of microorganisms, which could ultimately save human life on Earth.

New Horizons in Wheat and Barley Research Springer
Snakes of the World: A Catalogue of Living and Extinct Species—the first catalogue of its kind—covers all living and fossil snakes described between 1758 and 2012, comprising 3,509 living and 274 extinct species allocated to 539 living and 112 extinct genera. Also included are 54 genera and 302 species that are dubious or invalid, resulting in recognition of 705 genera and 4,085 species. Features: Alphabetical listings by genus and species Individual accounts for each genus and species Detailed data on type specimens and type localities All subspecies, synonyms, and proposed snake names Distribution of species by country, province, and elevation Distribution of fossils by country and geological periods Major taxonomic references for each genus and species Appendix with major references for each country Complete bibliography of all references cited in text and appendix Index of 12,500 primary snake names The data on type specimens includes museum and catalog number, length and sex, and collector and date. The listed type localities include restrictions and corrections. The bibliography provides complete citations of all references cited in the text and appendix, and taxonomic comments are given in the remarks sections. This standard reference supplies a scientific, academic, and professional treatment of snakes—appealing to conservationists and herpetologists as well as zoologists, naturalists, hobbyists, researchers, and teachers.

Select Proceedings of CPIE 2019 Notion Press

This timely book covers basic mechanisms, characterization, theoretical simulations, and applications for exchange bias in granular nanosystems, thin films, and bulk systems. After an overview of the field and key principles, the next section covers nanogranular (core-shell) systems, followed by chapters on thin films, bilayers/multilayers nanostructures, dilute magnetic semiconductors, and multiferroic systems. A final section turns to bulk systems, such as those consisting of perovskite structures, rare earth-transition metal intermetallic, and ion implantations. Readers of this book will obtain A complete, modern overview on exchange bias phenomena, covering synthesis, characterization techniques, and applications An introduction to all the important phenomenological models proposed for thin films, bulk materials, and nanoparticles Detailed discussion of the importance of size, shape, cooling field, and temperature on exchange bias properties Understanding of novel applications of exchange bias systems

Rhizosphere Microbes Springer

One new mother in twenty is diagnosed with traumatic stress after childbirth. In *Birth Crisis* Sheila Kitzinger explores the disempowerment and anxiety experienced by these women. Key topics discussed include: increasing intervention in pregnancy the shift in emphasis from relationships to technology in childbirth how family, friends and professional caregivers can reach out to traumatized mothers how women can work through stress to understand themselves more deeply and grow in emotional maturity how care and the medical system needs to be changed. *Birth Crisis* draws on mothers' voices and real-life experiences to explore the suffering after childbirth which has, until now, been brushed under the carpet. It is a fascinating and useful resource for student and practising midwives, all health professionals, and women and their families who want to learn how to overcome a traumatic birth.

Natural Products of Silk Road Plants CRC Press

This volume comprises select peer-reviewed contributions from the International Conference on Production and Industrial Engineering (CPIE) 2019. The contents focus on latest research in production and manufacturing engineering including case studies with analytical models and latest numerical approaches. The topics covered include micro, nano, and non-conventional machining, additive manufacturing, casting and forming, joining processes, vibrations and acoustics, materials and processing, product design and development, industrial automation, CAD/CAM and robotics, and sustainability in manufacturing. The book can be useful for students, researchers, and professionals working in manufacturing and production engineering, and other allied fields. *Biodiversity, Biofuels, Agroforestry and Conservation Agriculture*

Springer Nature

Dr. Herrera has created an issue that will serve as a complete update on the topic of Portal Hypertension. Content is provided from medical therapies to surgery on the patient with portal hypertension. The following important issues are addressed: Invasive and Noninvasive Methods of Measuring Portal Pressure; Primary Prophylaxis of Variceal Bleeding; Gastric and Ectopic Varices; Hepatic Hydrothorax; and Hepatopulmonary Syndrome. Readers will come away with state-of-the-art information on the topic of portal hypertension.

Handbook Of Photodynamic Therapy: Updates On Recent Applications Of Porphyrin-based Compounds IGI Global
Advanced Functional Polymers for Biomedical Applications presents novel techniques for the preparation and characterization of functionalized polymers, enabling researchers, scientists and engineers to understand and utilize their enhanced functionality in a range of cutting-edge biomedical applications. Provides systematic coverage of the major types of functional polymers, discussing their properties, preparation techniques and potential applications. Presents new synthetic approaches alongside the very latest polymer processing and characterization methods. Unlocks the potential of functional polymers to support ground-breaking techniques for drug and gene delivery, diagnostics, tissue engineering and regenerative medicine.

Charnolophagy in Health and Disease CRC Press

Providing the most comprehensive, up-to-date coverage of this exciting biomedical field, *Handbook of Photomedicine* gathers together a large team of international experts to give you a complete account of the application of light in healthcare and medical science. The book progresses logically from the history and fundamentals of photomedicine to diverse therapeutic applications of light, known collectively as phototherapies. It facilitates your understanding of human diseases caused by light, the rationale for photoprotection, and major applications of phototherapy in clinical practice. The handbook begins with a series of historical vignettes of pioneers from the last two centuries. It also presents the fundamentals of physics and biology as applied to photomedicine. It next examines conditions and diseases caused by light, including skin cancer, dermatoses, and immunosuppression. The remainder of the book focuses on the most important clinical therapeutic applications of different kinds of light that vary in both wavelength and intensity. The book discusses ultraviolet phototherapy for skin diseases and infections and presents the basic science of photodynamic therapy and its use in cancer therapy and other medical specialties. It then covers mechanistic studies and clinical applications of low-level laser (light) therapy as well as the use of high power or surgical laser therapy in specialties, such as dentistry and dermatology. The book concludes with a collection of miscellaneous types of phototherapy.

Cognitive Radio and Networking for Heterogeneous Wireless Networks Routledge

This book outlines comprehensive information on the global trends, policies, research priorities and frontier innovations made in the research domain of breeding, biotechnology, biofortification and quality enhancement of wheat and barley. With contributions by international group of leading wheat and barley researchers, this book offers data-based insights along with a holistic view of the subject and serve as a vital resource of information for scientists engaged in breeding future high-yielding biofortified varieties. It catalogs both conventional as well as modern tools for gene identification and genome editing interventions for enhancing the yield, grain quality, disease and pest resistance, nutrient-use efficiency and abiotic stress tolerance. The prospects of processing high quality wheat end-products with long term storage and high nutritional quality are also discussed. This book

is of interest to teachers, researchers, molecular breeders, cereal biochemists and biotechnologist, policymakers and professionals working in the area of wheat and barley research, food and cereal industry. Also, the book serves as an additional reading material for the undergraduate and graduate students of agriculture and food sciences. National and international agricultural scientists, policy makers will also find this book to be a useful read. Volume 2 of *New Horizons in Wheat and Barley Research* covers topics in crop protection and resource management.

Advances in Ultrafast Optics Springer Nature

Kashmir And United Nations Macromolecular Anticancer Therapeutics Springer Science & Business Media

Global Trends, Breeding and Quality Enhancement Springer Nature

Marek's disease is a form of cancer of poultry caused by an important herpesvirus (MDV). It continues to be a threat to poultry health and welfare and worldwide losses are estimated to be US\$ 1 billion annually. Marek's Disease provides a timely review of the problems of Marek's disease with descriptions of the complex viral life cycle, how MDV targets different types of white blood cells, and details of the virus structure, its genes and proteins. The multiplicity of factors contributing to susceptibility is explored in detail. Vaccination - the problems arising from current vaccination strategies and how these can be improved and made sustainable in future. The lessons learned in the control of MD over the past 30 years, and how we can use MD as a model for other animal and human diseases is discussed.

Portal Hypertension, An Issue of Clinics in Liver Disease, John Wiley & Sons

Plants create a dynamic micro-biosphere in the soil, around the roots, called as 'rhizosphere', which harbors diverse number of microorganisms for sustaining their growth and development. A soil with diverse and multi-traits microbial communities is considered healthy to enhance crop productivity. In the last decades, rhizosphere biology has gained attention due to unraveling of new mechanisms, processes and molecules in the rhizosphere that contributes towards the promotion of plant productivity. The rhizospheric microbes and associated processes are being utilized for harnessing potential of soils in effective and sustainable functioning in the agro-ecosystems. Broadly, the book discusses rhizospheric microbes and their role in modulating functions of soil and crop plant. Specifically, it highlights conventional and modern aspects of rhizosphere microbes such as - microbiome in the rhizosphere, microbes as an indicator and promoter of soil health, rhizosphere microbes as biofertilizer, biostimulator and biofortifier, microbial signaling in the rhizosphere, recent tools in deciphering rhizobiome, and regulatory mechanisms for commercialization of biofertilizer, biopesticide and biostimulator. The book is useful for agriculture scientist, biotechnologist, plant pathologist, mycologist, and microbiologist, farming community, scientist of R&D organization, as well as teaching community, researcher and student and policy maker.

Bioactive Natural Products Springer Nature

This book presents selected peer-reviewed papers presented at the International Conference on Innovative Technologies in Mechanical Engineering (ITME) 2019. The book discusses a wide range of topics in mechanical engineering such as mechanical systems, materials engineering, micro-machining, renewable energy, systems engineering, thermal engineering, additive manufacturing, automotive technologies, rapid prototyping, computer aided design and manufacturing. This book, in addition to assisting students and researchers working in various areas of mechanical engineering, can also be useful to researchers and professionals working in various allied and interdisciplinary fields.

Innovative Applications of Nanowires for Circuit Design Springer

Nature

Combination Drug Delivery Approach as an Effective Therapy for Various Diseases explores the use of bioengineering tools in combination drug delivery approaches to control various diseases at different clinical stages of synergistic action, varying mechanisms of action, and during the suppression of drug resistance. The book presents fundamental knowledge on the experiential and experimental aspects of drug combination approaches in order to equip rational applications in preventing the emergence of resistance during the treatment of various diseases. It provides a holistic understanding of the principles behind formation, characterization, applications, regulations, toxicity, challenges and future perspectives of combination drug delivery approaches. It will be of interest to researchers and advanced graduate students in pharmaceutical science, chemistry, biology and medicine, as well as pharmaceutical companies and scientific organizations. Provides an accounting of vital aspects on various combination drug delivery approaches, presenting next generation diagnostics and therapeutics. Discusses the perspectives of current technologies in highly organized tables, illustrative figures and flow charts. Defines major gaps in knowledge that can lead to significant scientific discoveries.

Advances in Clinical Chemistry Springer

"This volume includes contributions about the effect of natural compounds on cancer cells as well as on neurodegenerative diseases. More specifically, natural compounds are also described as inducers of cell death. Topics related to diet in health, disease, and inflammation linked to cancer are also discussed."--Pref.

Marek's Disease Elsevier

The main objective of this book is to present the recent applications of photodynamic therapy (PDT) in treating cancer and other diseases. The limitations associated with current PDT agents, and the synthetic designs that have been used in various laboratories are also discussed. The utility of certain tumor-avid agent for cancer imaging (fluorescence, PET, MRI) is also summarized. The book also includes the use of delivery vehicles, including nanoparticles in improving the tumor-specificity of the desired agents. The book is basically focused on the translational approach of drug development. By providing certain specific examples, a clear concept of moving a 'product' from the bench to bed-side is also discussed. To have a clear concept of drug development the book is divided in three parts — Medicinal Chemistry, Mechanistic and Clinical studies. Each part includes the contributions from the leading scientists with extensive experience in the respective field. The handbook is assembled by renowned scientists Dr Dougherty, known as the father of PDT, Dr Kessel, well known for his contributions on mechanism of PDT and Dr Pandey for his inventions in developing improved agents for PDT and cancer-imaging.

From Assessment to Treatment Springer Science & Business Media

This book gathers peer-reviewed contributions presented at the 1st International Conference on Structural Engineering and Construction Management (SECON'20), held in Angamaly, Kerala, India, on 14-15 May 2020. The meeting served as a fertile platform for discussion, sharing sound knowledge and introducing novel ideas on issues related to sustainable construction and design for the future. The respective contributions address various aspects of numerical modeling and simulation in structural engineering, structural dynamics and earthquake engineering, advanced analysis and design of foundations, BIM, building energy management, and technical project management. Accordingly, the book offers a valuable, up-to-date tool and essential overview of the subject for scientists and practitioners alike, and will inspire further investigations and research.

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