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Retinal Pigment Epithelium in Health and Disease
Springer Science & Business Media
Cold Plasma in Food and Agriculture: Fundamentals and Applications is an essential reference offering a broad perspective on a new, exciting, and growing field for the food industry. Written for researchers, industry personnel, and students interested in nonthermal food technology, this reference will lay the groundwork of plasma physics, chemistry, and technology, and their biological applications.

Food scientists and food engineers interested in understanding the theory and application of nonthermal plasma for food will find this book valuable because it provides a roadmap for future developments in this emerging field. This reference is also useful for biologists, chemists, and physicists who wish to understand the fundamentals of plasma physics, chemistry, and technology and their biological interactions through applying novel plasma sources to food and other sensitive biomaterials. - Examines the topic of cold plasma technology for food applications - Demonstrates state-of-the-art developments in plasma technology and potential solutions to improve food safety and quality - Presents a solid introduction for readers on the topics of plasma physics and chemistry that are required to understand biological applications for foods - Serves as a roadmap for future developments for food scientists, food engineers, and biologists, chemists, and physicists working in this emerging field Springer Science & Business Media Explore this comprehensive discussion of the

application of physiologically - and physicochemical-based models to guide drug delivery edited by leading experts in the field Drug Delivery Approaches: Perspectives from Pharmacokinetics and Pharmacodynamics delivers a thorough discussion of drug delivery options to achieve target profiles and approaches as defined by physical and pharmacokinetic models. The book offers an overview of drug absorption and physiological models, chapters on oral delivery routes with a focus on both PBPK and multiple dosage form options. It also provides an explanation of the pharmacokinetics of the formulation of drugs delivered by systemic transdermal routes. The distinguished editors have included practical and accessible resources that address the biological and delivery approaches to pulmonary and mucosal delivery of drugs. Emergency care settings are also described, with explorations of the relationship between parenteral infusion profiles and PK/PD. The future of drug delivery is addressed via discussions of virtual experiments to elucidate mechanisms and approaches to drug delivery

and personalized medicine. Readers will also benefit from the inclusion of: A thorough introduction to the utility of mathematical models in drug development and delivery An exploration of the techniques and applications of physiologically based models to drug delivery Discussions of oral delivery and pharmacokinetic models and oral site-directed delivery A review of integrated transdermal delivery and pharmacokinetics in development An examination of virtual experiment methods for integrating pharmacokinetic, pharmacodynamic, and drug delivery mechanisms Alternative endpoints to pharmacokinetics for topical delivery Perfect for researchers, industrial scientists, graduate students, and postdoctoral students in the area of pharmaceutical science and engineering, Drug Delivery Approaches: Perspectives from Pharmacokinetics and Pharmacodynamics will also earn a place in the libraries of formulators, pharmacokineticists, and clinical pharmacologists.

Plant Relationships Springer Science & Business Media

Aging affects neurological function leading to neurological disease As

society grows older, so do the neurological problems associated with aging. These can be new neurological deficits due to the aging process itself, or the effect of aging on already existing neurological conditions. Neurologists will spend increasing amounts of time managing patients with age-related neurological complications. Geriatric Neurology brings together the wisdom of world-leading experts. They have crafted a new textbook to define this emerging subspecialty from basic science through clinical assessment and medical management to social aspects of patient care. Geriatric Neurology covers: The aging brain in neurology Assessment of the geriatric neurology patient Neurological conditions in the elderly Therapeutics for the geriatric neurology patient Management issues beyond therapeutics Comprehensive in scope but with practical focus for effective patient care, Geriatric Neurology provides top-of-class guidance for the management of elderly patients with neurological disorders.

Seldin and Giebisch's The Kidney CRC Press

A classic nephrology reference for over 20 years,

Seldin & Giebisch's The Kidney, is the acknowledged authority on renal physiology and pathophysiology. The fourth edition follows the changed focus of nephrology research to the study of how individual molecules work together to affect cellular and organ function, emphasizing the mechanisms of disease. With over 40 new chapters and over 1000 illustrations, this edition offers the most in-depth discussion anywhere of the physiologic and pathophysiologic processes of renal disease. Comprehensive, authoritative coverage progresses from molecular biology and cell physiology to clinical issues regarding renal function and dysfunction. If you research the development of normal renal function or the mechanisms underlying renal disease, Seldin & Giebisch's The Kidney is your number one source for information.* Offers the most comprehensive coverage of fluid and electrolyte regulation and dysregulation in 51 completely revised chapters unlike Brenner & Rector's The Kidney which devotes only 7 chapters to this topic.* Includes 3 sections, 31 chapters, devoted to regulation and

disorders of acid-base homeostasis, and epithelial and nonepithelial transport regulation. Brenner & Rector's only devotes 5 chapters to these topics.* Previous three editions edited by Donald Seldin and Gerhard Giebisch, world renowned names in nephrology. The title for the fourth edition has been changed to reflect their considerable work on previous editions and they have also written the forward for this edition. * Over 20 million adults over age 20 have chronic kidney disease with the number of people diagnosed doubling each decade making it America's ninth leading cause of death.

Classics in Total Synthesis III Elsevier

Modern Problems in Condensed Matter Sciences, Volume 27.1: Landau Level Spectroscopy focuses on the processes, reactions, methodologies, and approaches involved in condensed matter sciences, including semiconductors, resonances, and spectroscopy. The selection first tackles cyclotron resonance and phonon-assisted cyclotron resonance. Discussions focus on absorption coefficient for phonon-assisted transitions, effect of a direct current

electric field, cyclotron resonance as a kinetics experiment, and cyclotron resonance in the quantum limit. The manuscript then takes a look at polaron effects in cyclotron resonance and electric-dipole spin resonances. The book examines spin-flip Raman scattering and magnetoplasma effects in IV-VI compounds. Topics include magnetoplasma effects in strained semiconductor layers; magnetoplasma effects in two-dimensional systems; experimental and theoretical results of nonmagnetic semiconductors; and experimental and theoretical results of diluted magnetic semiconductors. The manuscript then surveys the interband magneto-optics of semiconductors as diamagnetic exciton spectroscopy and interband magneto-optics in narrow-gap semiconductors. The selection is a dependable source of information for scientists and readers interested in the Landau level spectroscopy.

Interventional Cardiology

Springer

Drawing on the expertise of internationally known, interdisciplinary scientists and researchers, Food Colorants: Chemical and Functional

Properties provides an integrative image of the scientific characteristics , functionality, and applications of color molecules as pigments in food science and technology, as well as their impact on health. The boo

Continuous Renal Replacement Therapy

Springer Science & Business Media

This volume of the Trilogy of Traditional Foods, part of the ISEKI Food Series, describes important aspects of the production of foods and beverages from all over the globe. The intention of this volume is to provide readers with an appreciation of how products were initially made, and which factors have shaped their development over time. Some modern products have remained local, while others are commodities that appear in peoples' cabinets all over the world. Modernization of Traditional Food Processes and Products is divided into two sections. The first section focuses on products originating in Europe, while the second section is a collection of products from the rest of the world. Each chapter describes the origin of a particular food or beverage and discusses the changes and the science that led to the modern

products found on supermarket shelves. The international List of Contributors, which includes authors from China, Thailand, India, Argentina, New Zealand, and the United Kingdom, attests to the international collaboration for which the ISEKI Food Series is known. The volume is intended for both the practicing food professional and the interested reader.

Properties of Glass-Forming Melts

Springer Science & Business Media

To a certain extent the dementias have been forgotten diseases until just recen tly when they were brought to the attention of the general public and health authorities as a result of the increasing number of cases in the aging popula tion, especially among famous people, and because of the efforts of private foundations. The goals of the present volume are to present the dementias to health prac titioners, to provide some basic information on their epidemiology and biolo gical basis and to discuss the diagnostic and clinical problems that physicians and institutions face when caring for demented patients. This book explores the various

types of dementias and is not limited to Alzheimer's disease although, as expected, more information is available and presented on this pathology. On the other hand, a few fundamental questions on dementia can only be answe red through a comparison of the various forms. Examples of such questions are the following: Is the loss of cerebral tissue sufficient to cause dementia? Are there thresholds or is there a continuous progression toward the irreversible development of dementia? Are there common pathways in the dementing pro cess? Are there common risk factors? Comparative analysis allows the common and distinctive patterns of the various dementias to be defined, ultimately lea ding to more focused therapeutic interventions. *Intraoperative Imaging* Karger Medical and Scientific Publishers Continuous Renal Replacement Therapy provides concise, evidence-based, bedside guidance for the management of critically ill patients with acute renal failure, offering quick reference answers to clinicians' questions about treatments and situations encountered in daily practice.

Lithic Technological Organization and Paleoenvironmental Change
Springer Science & Business Media
We are currently facing an alarming obesity epidemic, with its well-known health consequences such as metabolic syndrome / type 2 diabetes, cardiovascular diseases, an increased incidence of certain types of cancer, musculoskeletal disorders and pulmonary diseases. Experimental and clinical evidence accumulated in recent years now suggests that obesity has also a major effect on renal structure and function. Since the adipocyte is considered a source of many hormones and cytokines, obesity has much more direct influences on renal function besides mediating hypertension: It can by itself induce renal disease such as focal segmental glomerulosclerosis, but also, more commonly, bring about progression of chronic renal diseases. The present volume is the first comprehensive compilation dedicated to this important topic, featuring discussions of pathophysiological as well as clinical aspects written by the leaders in this emerging field of research. It brings together pathophysiolo

gical concepts on how obesity influences renal structure and function, reviews the epidemiology of the problem and provides therapeutic suggestions. This publication is recommended for internists, nephrologists, hypertensiologists, cardiologists, and urologists treating patients with obesity and renal diseases. Furthermore, basic scientists such as renal physiologists, renal pathologists, pharmacologists, biochemists, and epidemiologists who want a comprehensive overview of the topic will also profit from this book.

Bats in the Anthropocene: Conservation of Bats in a Changing World Oxford University Press

A comprehensive, state-of-the-art synthesis of biogeochemical dynamics and the impact of human alterations at major river-coastal interfaces for advanced students and researchers.

Ocean Biogeochemistry Cambridge University Press

This translational text offers in-depth reviews of the metabolic and nutritional disorders that are prevalent in patients with renal disease. Chapter topics address the growing epidemic of obesity and metabolic syndrome. Each chapter integrates

basic and clinical approaches, from cell biology and genetics to diagnosis, patient management and treatment. Chapters in sections 4-7 include new illustrative case reports, and all chapters emphasize key concepts with chapter-ending summaries. New features also include the latest National Kidney Foundation Clinical Practice Guidelines on Nutrition in Chronic Renal Failure, the most recent scientific discoveries and the latest techniques for assessing nutritional status in renal disease, and literature reviews on patients who receive continuous veno-venous hemofiltration with or without dialysis. - Provides a common language for nephrologists, nutritionists, endocrinologists, and other interested physicians to discuss the underlying research and translation of best practices for the nutritional management and prevention of renal disease - Saves clinicians and researchers time in quickly accessing the very latest details on nutritional practice as opposed to searching through thousands of journal articles - Correct diagnosis (and therefore correct treatment) of renal, metabolic, and nutritional

disorders depends on a strong understanding of the molecular basis for the disease – both nephrologists and nutritionists will benefit - Nephrologists and nutritionists will gain insight into which treatments, medications, and diets to use based on the history, progression, and genetic make-up of a patient - Case Reports will offer an added resource for fellows, nutritionists, and dieticians who need a refresher course

Obst und Garten

Springer Science & Business Media

This book deals with the early development of Śaivism in ancient Dakṣiṇa Kosala, the region that roughly corresponds to the modern state of Chhattisgarh, plus the districts of Sambalpur, Balangir and Kalahandi of Odhisha (formerly Orissa). At the end of the sixth and the beginning of the seventh century, this region was under the control of the Pāṇḍava king Śivagupta alias 'Bālārjuna' hailing from Śrīpura (the modern village of Sirpur), who was a great patron of religion. Epigraphical evidence, supported by archaeological remains, has shown that by the time of Śivagupta's reign, which lasted for at least fifty-seven years,

Dakṣiṇa Kosala was already a rich center of early Śaivism. In the context of this setting the following research questions were formulated: what circumstances fostered the rise and development of Śaivism in this area, and did the Skandapurāṇa , an important and contemporaneous religious scripture, play any role in that development? An answer to these questions would not only shed light on the religious processes at work in Dakṣiṇa Kosala, but would also touch upon the interplay of political, social, economic and geographical factors.

Obesity and the Kidney

CRC Press

Oceans account for 50% of the anthropogenic CO2 released into the atmosphere. During the past 15 years an international programme, the Joint Global Ocean Flux Study (JGOFS), has been studying the ocean carbon cycle to quantify and model the biological and physical processes whereby CO2 is pumped from the ocean's surface to the depths of the ocean, where it can remain for hundreds of years. This project is one of the largest multi-disciplinary studies of the oceans ever carried out and this book synthesises the results. It covers all aspects of the

topic ranging from air-sea exchange with CO2, the role of physical mixing, the uptake of CO2 by marine algae, the fluxes of carbon and nitrogen through the marine food chain to the subsequent export of carbon to the depths of the ocean. Special emphasis is laid on predicting future climatic change.

Stockley's Drug Interactions 9 Cambridge University Press

Intraoperative imaging technologies have taken an ever-increasing role in the daily practice of neurosurgeons and the increasing attention and interest necessitated international interaction and collaboration. The Intraoperative Imaging Society was formed in 2007. This book brings together highlights from the second meeting of the Intraoperative Imaging Society, which took place in Istanbul-Turkey from June 14 to 17, 2009. Included within the contents of the book is an overview of the emergence and development of the intraoperative imaging technology as well as a glimpse on where the technology is heading. This is followed by in detail coverage of intraoperative MRI technology and sections on intraoperative

CT and ultrasonography. There are also sections on multimodality integration, intraoperative robotics and other intraoperative technologies. We believe that this book will provide an up-to date and comprehensive general overview of the current intraoperative imaging technology as well as detailed discussions on individual techniques and clinical results.

Drug Delivery Approaches University of Hawaii Press

This text provides a strong foundation for treating a variety of avian and exotic species. Key topics include normal and abnormal behavior and behavioral modification. Each chapter addresses normal behavior in captivity, medical implications of abnormal behavior, pain associated behaviors, and how behavior relates to captivity. The book also includes client education handouts and suggested readings.

Classics in Total Synthesis Springer Science & Business Media

This book provides a contemporary resource on one of the major players in retinal diseases – the Retinal Pigment Epithelium (RPE). Throughout the book, the physiological and the pathological function of the RPE are covered on

equal terms, to help readers to understand the RPE as a whole. Moreover, the development of RPE in diagnostics and therapy are covered, as well as some practical knowledge about RPE experimental models. Retinal Pigment Epithelium in Health and Disease highlights new findings of RPE research and includes the state-of-the-art knowledge of each RPE topic presented. This important feature sets this book apart from other publications, with the chapters following a design which leads from the general to the specific, to give a precise collection of the facts known. The chapters are written by well-known experts that are currently active in the field as consultants, basic scientists, and group leaders, providing expert guidance on the current aspects and future outlooks of this topic.

Modernization of Traditional Food Processes and Products

John Wiley & Sons

This book focuses on central themes related to the conservation of bats. It details their response to land-use change and management practices, intensified urbanization and roost disturbance and loss. Increasing

interactions between humans and bats as a result of hunting, disease relationships, occupation of human dwellings, and conflict over fruit crops are explored in depth. Finally, contributors highlight the roles that taxonomy, conservation networks and conservation psychology have to play in conserving this imperilled but vital taxon. With over 1300 species, bats are the second largest order of mammals, yet as the Anthropocene dawns, bat populations around the world are in decline. Greater understanding of the anthropogenic drivers of this decline and exploration of possible mitigation measures are urgently needed if we are to retain global bat diversity in the coming decades. This book brings together teams of international experts to provide a global review of current understanding and recommend directions for future research and mitigation. Nutritional Management of Renal Disease John Wiley & Sons Bruce E. Tabashnik and Richard T. Roush Pesticide resistance is an increasingly urgent worldwide problem. Resistance to one or more pesticides has been documented in more than 440 species of

insects and mites. Resistance in vectors of human dise8se, particularly malaria-transmit ting mosquitoes, is a serious threat to public health in many nations. Agricultural productivity is jeopardized because of widespread resistance in crop and livestock pests. Serious resistance problems are also evident in pests of the urban environ ment, most notably cockroaches. Better understanding of pesticide resistance is needed to devise techniques for managing resistance (Le. , slowing, preventing, or reversing development of resistance in pests and promoting it in beneficial natural enemies). At the same time, resistance is a dramatic example of evolution. Knowledge of resistance can thus provide fundamental insights into evolution, genetics, physiology, and ecology. Resistance management can help to reduce the harmful effects of pesticides by decreasing rates of pesticide use and prolonging the efficacy of environmentally safe pesticides. In response to resistance problems, the concentration or frequency of pesticide applications is often increased. Effective resistance management would reduce this type of

increased pesticide use. Improved monitoring of resis tance would also decrease the number of ineffective pesticide applications that are made when a resistance problem exists but has not been diagnosed. Resistance often leads to replacement of one pesticide with another that is more expensive and less compatible with alternative controls.

Cytogenetics

Springer Phycology is the study of algae, the primary photosyntheti c organisms in freshwater and marine food chains. As a food source for zooplankton and filter-feeding shellfish, the algae are an extremely important group. Since the publication of the first edition in 1981, this textbook has established itself as a classic resource on phycology. This revised edition maintains the format of previous editions, whilst incorporating more recent information from nucleic acid sequencing studies. Detailed life-history drawings of algae are presented alongside information on the cytology, ecology, biochemistry, and economic importance of selected genera. Phycology is suitable for upper-level undergraduat e and

graduate students following courses in phycology, limnology or biological oceanography. Emphasis is placed on those algae that are commonly covered in phycology courses, and encountered by students in marine and freshwater habitats.