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ICT Systems and Sustainability Milan Tuba 2020-12-14 This book proposes new technologies and discusses future solutions for ICT design infrastructures, as reflected in high-quality papers presented at the 5th International Conference on ICT for Sustainable Development (ICT4SD 2020), held in Goa, India, on 23–24 July 2020. The conference provided a valuable forum for cutting-edge research discussions among pioneering researchers, scientists, industrial engineers, and students from all around the world. Bringing together experts from different countries, the book explores a range of central issues from an international perspective.

Red Book 2015 American Academy of Pediatrics Committee 2015-05-01 The 2015 "Red Book" is the American Academy of Pediatrics' authoritative guide to manifestations, etiology, epidemiology, diagnosis, and treatment of more than 200 childhood conditions. It provides evidence-based guidance to practicing clinicians on pediatric infections and vaccinations based on the recommendations of the committee as well as the combined expertise of the CDC, the FDA and hundreds of physician contributors. The "Red Book" is an essential reference for pediatric infectious diseases specialists and general pediatricians, and is useful for family medicine and emergency medicine physicians as well. Public health and school health providers, medical residents and students also will find it a high-yield source of pediatric infectious disease and vaccine information. The book is divided into sections that cover Active and passive immunization Disease summaries Antimicrobial therapy for treatment and prophylaxis Care of children in special situations Updated information and recommendations you cannot afford to be without... Standardized approach to disease prevention through immunizations, antimicrobial prophylaxis, and infection control practices New chapter on Hemorrhagic Fevers Caused by Filoviruses has been added New chapter on human parechovirus infections has been added Updated information on hypersensitivity reactions after immunizations The latest on sexually transmitted infections (STIs) in adolescents and children Updated coverage of actinomycosis, amebiasis, arbovirus, bacterial vaginosis, blastocystis, candidiasis, Clostridium difficile, coronaviruses, dengue, enteroviruses, Escherichia coli, Giardia intestinalis, gonococcal infections, Helicobacter pylori infections, Lyme disease, meningococcal infections, pediculosis capitis, pertussis, pneumococcal infections, rotavirus, and more Managing Injection Pain has been significantly expanded Updated information on hepatitis C Updated information on group B streptococcal infections Updated section on drugs for parasitic infections Significantly revised chapter on Respiratory Syncytial Virus Recommendations for using MMR or MMRV vaccines have been updated The Antimicrobial Resistance and Antimicrobial Stewardship chapter has been significantly broadened and updated Updated information on HIV And much more!

Non-Timber Forest Products Azamal Husen 2021-07-30 Forests cover thirty-one percent of the world's land surface, provide habitats for animals, livelihoods for humans, and generate household income in rural areas of developing countries. They also supply other essential amenities, for instance, they filter water, control water runoff, protect soil erosion, regulate climate, store nutrients, and facilitate countless non-timber forest products (NTFPs). The main NTFPs comprise herbs, grasses, climbers, shrubs, and trees used for food, fodder, fuel, beverages, medicine, animals, birds and fish for food, fur, and feathers, as well as their products, like honey, lac, silk, and paper. At present, these products play an important role in the daily life and well-being of millions of people worldwide. Hence the forest and its products are very valuable and often NTFPs are considered as the 'potential pillars of sustainable forestry'. NTFPs items like food, herbal drugs, forage, fuel-wood, fountain, fibre, bamboo, rattans, leaves, barks, resins, and gums have been continuously used and exploited by humans. Wild edible foods are rich in terms of vitamins, protein, fat, sugars, and minerals. Additionally, some NTFPs are used as important raw materials for pharmaceutical industries. Numerous industry-based NTFPs are now being exported in considerable quantities by developing countries. Accordingly, this sector facilitates employment opportunities in remote rural areas. So, these developments also highlight the role of NTFPs in poverty alleviation in different regions of the world. This book provides a wide spectrum of information on NTFPs, including important references. We hope that the compendium of chapters in this book will be very useful as a reference book for graduate and postgraduate students and researchers in various disciplines of forestry, botany, medical botany, economic botany, ecology, agroforestry, and biology. Additionally, this book should be useful for scientists, experts, and consultants associated with the forestry sector.

Handbook of Herbs and Spices K. V. Peter 2012-08-13 Herbs and spices are among the most versatile ingredients in food processing, and alongside their sustained popularity as flavourants and colourants they are increasingly being used for their natural preservative and potential health-promoting properties. An authoritative new edition in two volumes, Handbook of herbs and spices provides a comprehensive guide to the properties, production and application of a wide variety of commercially-significant herbs and spices. Volume 1 begins with an introduction to herbs and spices, discussing their definition, trade and applications. Both the quality specifications for herbs and spices and the quality indices for spice essential oils are reviewed in detail, before the book goes on to look in depth at individual herbs and spices, ranging from basil to vanilla. Each chapter provides detailed coverage of a single herb or spice and begins by considering origins, chemical composition and classification. The cultivation, production and processing of the specific herb or spice is then discussed in detail, followed by analysis of the main uses, functional properties and toxicity. With its distinguished editor and international team of expert contributors, the two volumes of the new edition of Handbook of herbs and spices are an essential reference for manufacturers using herbs and spices in their products. They also provide valuable information for nutritionists and academic researchers. Provides a comprehensive guide to the properties, production and application of a wide variety of commercially-significant herbs and spices Begins with a discussion of the definition, trade and applications of herbs and spices Reviews the quality specifications for herbs and spices and examines the quality indices for spice essential oils

Plant Growth Regulators Tariq Aftab 2021 Agriculture faces many challenges to fulfil the growing demand for sustainable food production and ensure high-quality nutrition for a rapidly growing population. To guarantee adequate food production, it is necessary to increase the yield per area of arable land. A method for achieving this goal has been the application of growth regulators to modulate plant growth. Plant growth regulators (PGRs) are substances in specific formulations which, when applied to plants or seeds, have the capacity to promote, inhibit, or modify physiological traits, development and/or stress responses. They maintain proper balance between source and sink for enhancing crop yield. PGRs are used to maximize productivity and quality, improve consistency in production, and overcome genetic and abiotic limitations to plant productivity. Suitable PGRs include hormones such as cytokinins and auxins, and hormone-like compounds such as mepiquat chloride and paclobutrazol. The use of PGRs in mainstream agriculture has steadily increased within the last 20 years as their benefits have become better understood by growers. Unfortunately, the growth of the PGR market may be constrained by a lack of innovation at a time when an increase in demand for new products will require steady innovation and discovery of novel, cost-competitive, specific, and effective PGRs. A plant bio-stimulant is any substance or microorganism applied to plants with the aim to enhance nutrition efficiency, abiotic stress tolerance and/or crop quality traits, regardless of its nutrients content. Apart from traditional PGRs, which are mostly plant hormones, there are a number of substances/molecules such as nitric oxide, methyl jasmonate, brassinosteroids, seaweed extracts, strigolactones, plant growth promoting rhizobacteria etc. which act as PGRs. These novel PGRs or bio-stimulants have been reported to play important roles in stress responses and adaptation. They can protect plants against various stresses, including water deficit, chilling and high temperatures, salinity and flooding. This book includes chapters ranging from sensing and signalling in plants to translational research. In addition, the cross-talk operative in plants in response to varied signals of biotic and abiotic nature is also presented. Ultimately the objective of this book is to present the current scenario and the future plan of action for the management of stresses through traditional as well as novel PGRs. We believe that this book will initiate and introduce readers to state-of-the-art developments and trends in this field of study.

Assessment of Nutrient Intakes Clare Collins 2017 Assessment of Nutrient Intakes.

Handbook of Technical Textiles A. Richard Horrocks 2015-12-01 The second edition of Handbook of Technical Textiles, Volume 1: Technical Textile Processes provides readers with a comprehensive understanding of the latest advancements in technical textiles. With revised and updated coverage, including several new chapters, this volume reviews recent developments and technologies in the field, beginning with an overview of the technical textiles industry that includes coverage of technical fibers and yarns, weaving, spinning, knitting, and nonwoven production. Subsequent sections include discussions on finishing, coating, and the coloration of technical textiles. Provides a comprehensive handbook for all aspects of technical textiles Presents updated, detailed coverage of processes, fabric structure, and applications An ideal resource for those interested in high-performance textiles, textile processes, textile processing, and textile applications Contains contributions from many of the original, recognized experts from the first edition who update their respective chapters

Surgical Management of Urolithiasis Stephen Y. Nakada 2013-05-18 Written entirely by surgical urologists, Surgical Management of Urolithiasis: Percutaneous, Shockwave and Ureteroscopy presents a comprehensive overview of the past, present, and future of surgical techniques, with a focus on educating urologists on the full spectrum of stone procedures. In addition to the technical issues, detailed complications are described. Basic as well as advanced techniques are presented in both a didactic and visual mode with representative endoscopic images and radiographs. Recent advancements which are not routinely a core component of surgical training programs are also covered in detail. Compact and extensively illustrated, Surgical Management of Urolithiasis: Percutaneous, Shockwave and Ureteroscopy is a unique and valuable resource in the field of surgical urolithiasis, essential both for those currently in training and for those already in clinical practice.

Raynaud's Phenomenon Fredrick M. Wigley 2014-10-24 Raynaud's Phenomenon: A Guide to Pathogenesis and Treatment comprehensively reviews the understanding of a disorder that continues to challenge primary care clinicians and specialists alike. In the

last decade, there have been important advances not only in understanding the pathophysiology of Raynaud's Phenomenon (RP), but also in developing diagnostic methods and effective drug and non-drug therapies. Thoroughly discussing the various manifestations of RP, including childhood RP, RP secondary to connective tissue disease, and a variety of other associated disorders that include vascular perturbation that mimics RP, this title provides a wealth of new information available on normal and abnormal thermoregulation and helps physicians identify the best therapeutic approaches to treating RP. The work offers differential diagnosis options, reviews potential causes such as autoimmune disease, industrial trauma, drugs, and metabolic causes and provides clear recommendations for therapy. Engaging readers with case vignettes and a plethora of visual aids, *Raynaud's Phenomenon: A Guide to Pathogenesis and Treatment* is a state-of-the-art, authoritative reference and invaluable contribution to the literature that will be of interest to physicians, patients, and individuals dealing with these disease processes.

Advanced Computational and Communication Paradigms Siddhartha Bhattacharyya 2018-05-25 The book titled *Advanced Computational and Communication Paradigms: Proceedings of International Conference on ICACCP 2017*, Volume 1 presents refereed high-quality papers of the First International Conference on Advanced Computational and Communication Paradigms (ICACCP 2017) organized by the Department of Computer Science and Engineering, Sikkim Manipal Institute of Technology, held from 8– 10 September 2017. ICACCP 2017 covers an advanced computational paradigms and communications technique which provides failsafe and robust solutions to the emerging problems faced by mankind. Technologists, scientists, industry professionals and research scholars from regional, national and international levels are invited to present their original unpublished work in this conference. There were about 550 technical paper submitted. Finally after peer review, 142 high-quality papers have been accepted and registered for oral presentation which held across 09 general sessions and 05 special sessions along with 04 keynote address and 06 invited talks. This volume comprises 65 accepted papers of ICACCP 2017.

Report of a Workshop on the Scope and Nature of Computational Thinking National Research Council 2010-04-20 Report of a Workshop on the Scope and Nature of Computational Thinking presents a number of perspectives on the definition and applicability of computational thinking. For example, one idea expressed during the workshop is that computational thinking is a fundamental analytical skill that everyone can use to help solve problems, design systems, and understand human behavior, making it useful in a number of fields. Supporters of this viewpoint believe that computational thinking is comparable to the linguistic, mathematical and logical reasoning taught to all children. Various efforts have been made to introduce K-12 students to the most basic and essential computational concepts and college curricula have tried to provide a basis for life-long learning of increasingly new and advanced computational concepts and technologies. At both ends of this spectrum, however, most efforts have not focused on fundamental concepts. The book discusses what some of those fundamental concepts might be. Report of a Workshop on the Scope and Nature of Computational Thinking explores the idea that as the use of computational devices is becoming increasingly widespread, computational thinking skills should be promulgated more broadly. The book is an excellent resource for professionals in a wide range of fields including educators and scientists.

Twelve Years a Slave Solomon Northup 2021-01-01 "Having been born a freeman, and for more than thirty years enjoyed the blessings of liberty in a free State—and having at the end of that time been kidnapped and sold into Slavery, where I remained, until happily rescued in the month of January, 1853, after a bondage of twelve years—it has been suggested that an account of my life and fortunes would not be uninteresting to the public." -an excerpt

Molecular Approaches in Plant Biology and Environmental Challenges Sudhir P. Singh 2019-10-01 This book discusses molecular approaches in plant as response to environmental factors, such as variations in temperature, water availability, salinity, and metal stress. The book also covers the impact of increasing global population, urbanization, and industrialization on these molecular behaviors. It covers the natural tolerance mechanism which plants adopt to cope with adverse environments, as well as the novel molecular strategies for engineering the plants in human interest. This book will be of interest to researchers working on the impact of the changing environment on plant ecology, issues of crop yield, and nutrient quantity and quality in agricultural crops. The book will be of interest to researchers as well as policy makers in the environmental and agricultural domains.

Australasian Anaesthesia 2021 Richard Riley 2021-12

Treatment of Urolithiasis M. Akimoto 2012-03-09 Urolithiasis is not only one of the most frequently encountered diseases at urological clinics; it is also the disorder whose treatment has shown the most rapid progress in the past decade. In that period, medicine has experienced a real revolution, characterized by minimally invasive treatments, improvement of the quality of life, and cost-effectiveness in treatment outcomes. In urology, the revolution started with the development of endoscopic retrograde treatment of urolithiasis in the upper urinary tract, which led to development of the percutaneous antegrade maneuver in the latter half of the 1970s. The most remarkable event occurred in 1982, when clinical use of extracorporeal shock wave lithotripsy was introduced by the Munich group, represented by Dr. Christian Chaussy, at the 18th Congress of the International Society of Urology in San Francisco. With the advent of these new strategies, open surgery for urolithiasis has all but disappeared. Today, with the availability of new technology and equipment, guidelines for the treatment of urolithiasis have changed in all developed countries. It is quite timely that the Meeting of International Consultation on Urolithiasis will be held in Paris in June 2001 to establish international guidelines for urolithiasis. Looking through this textbook for urolithiasis, I was greatly impressed to learn that we have already drawn up some guidelines. The book includes all the updated advances of urolithiasis presented by the most prominent and experienced urologists from all around the world.

Cardiovascular Disease in Women Richard C. Becker 1995 Heart disease remains the leading cause of morbidity and mortality in the industrialized countries and can occur in men and women of any age. The contributors to this special issue, all of them leading authors in the field, focus on cardiovascular disease in women. As a result, this publication gives an up-to-date overview of the latest developments in this particular field, with information ranging from basic concepts to the treatment of women patients and including social aspects. The articles discuss topics such as coronary artery disease and its prevention, myocardial infarction and its treatment, congestive heart failure, stroke, peripheral vascular disease, estrogen replacement as well as on-going clinical trials. 'Cardiovascular Disease in Women' takes a further step towards the solving of an international health care problem and will be of interest to practising physicians, nurses, students of medicine and clinical researchers all over the world.

Microbial Applications Vijai Kumar Gupta 2016

Fractures of the Cervical, Thoracic, and Lumbar Spine Alexander R. Vaccaro 2002-09-26 This reference focuses on individualized spinal injury assessments, immobilization techniques, nonoperative and operative indications, operative fixation strategies, and prognoses. Containing over 1900 references, *Fractures of the Cervical, Thoracic, and Lumbar Spine* is an invaluable resource for orthopedic, spinal, and trauma surgeons; neurosurgeon

Coronary Microvascular Dysfunction Filippo Crea 2013-08-15 In the past two decades a number of studies have shown that abnormalities in the function and structure of coronary microcirculation can be detected in several cardiovascular diseases. On the basis of the clinical setting in which it occurs, coronary microvascular dysfunction (CMD) can be classified into four types: CMD in the absence of any other cardiac disease; CMD in myocardial diseases; CMD in obstructive epicardial coronary artery disease; and iatrogenic CMD. In some instances CMD represents an epiphenomenon, whereas in others it represents an important marker of risk or may contribute to the pathogenesis of myocardial ischemia, thus becoming a possible therapeutic target. This book provides an update on coronary physiology and a systematic assessment of microvascular abnormalities in cardiovascular diseases, in the hope that it will assist clinicians in prevention, detection and management of CMD in their everyday activity.

Medicinal Plants in the Asia Pacific for Zoonotic Pandemics, Volume 3 Christophe Wiart 2021-12-06 *Medicinal Plants in the Asia Pacific for Zoonotic Pandemics* provides an unprecedented, comprehensive overview of the phylogeny, botany, ethnopharmacology, and pharmacology of more than 100 plants used in the traditional systems of Asia and Pacific medicine for the treatment of microbial infections. It discusses their actions and potentials against viruses, bacteria, and fungi that represent a threat of epidemic and pandemic diseases, with an emphasis on the molecular basis and cellular pathways. This book presents for each plant the scientific name, the botanical classification, traditional medicinal uses, active chemical constituents, and pharmacology. This volume is a critical reference for anyone involved in the discovery of leads for the development of lead molecules or phytopharmaceutical products for the prevention or treatment of pandemic viral, bacterial, or fungal infections. **FEATURES** Includes phylogenetic presentation of medicinal plants and a chemotaxonomical rationale of antiviral, antibacterial, and antifungal actions Discusses chemical structure–activity relationship, pharmacokinetics, and oral bioavailability of antimicrobial principles Introduces the molecular mechanism of natural products on viruses, bacteria, and fungi Contains a selection of botanical plates and useful bibliographic references This book is a useful research tool for postgraduates, academics, and the pharmaceutical, herbal, and nutrition industries. *Medicinal Plants in the Asia Pacific for Zoonotic Pandemics* includes commentary sections that invite further research and reflection on the fascinating and timely subject of the development of leads or herbals from Asia-Pacific medicinal plants to safeguard humanity against the forthcoming waves of viral, bacterial, or fungal pandemics. This book is an ideal reference text for medicinal plant enthusiasts.

Brain Edema XIII Julian T. Hoff 2006-06-22 This volume contains 93 papers from internationally recognized experts in the field of brain edema and brain injury. The papers include human and animal studies on edema following stroke, cerebral hemorrhage, traumatic brain injury, spinal cord injury and hydrocephalus. Papers also address fluid dynamics in the brain (including the role of aquaporins).

Sensors in Water Pollutants Monitoring: Role of Material D. Pooja 2019-10-24 This book discusses the sensitivity, selectivity, and response times of different sensor materials and their potential application in the design of portable sensor systems for monitoring water pollutants and remediation systems. Beginning with an overview on water pollutants and analytical methods for their detection, the book then moves on to describing the advances in sensor materials research, and the scope for their use in different types of sensors. The book lays emphasis on techniques such as colorimetric, fluorescence, electrochemical, and biological sensing of conventional and emerging pollutants. This book will serve as a handy guide for students, researchers, and professional engineers working in the field of sensor systems for monitoring water pollutants to address various challenges.

Biohydrometallurgical Recycling of Metals from Industrial Wastes Hong Hocheng 2017-09-11 Although many available metal recycling methods are simple and fast, they are also expensive and cause environmental pollution. Biohydrometallurgical processing of metals offers an alternative to overcome these issues, as the use of biological means not only helps to conserve dwindling ore resources but also fulfills the need for the unambiguous need to extract metals in nonpolluting, low-energy, and low-cost way. This book covers biohydrometallurgy and its application in the recovery of metals from secondary sources like wastes. It aims to provide readers with a comprehensive overview of different wastes for metal recovery and biological treatment methods that are both environmentally friendly and economically viable.

Oxidative Stress in Lung Diseases Sajal Chakraborti 2021-01-22 This is the second volume of the comprehensive, two-volume work on oxidative stress in lung diseases. Adopting a multidisciplinary approach, it demonstrates the cellular and molecular mechanisms associated with ROS (reactive oxygen species)-induced initiation and progression of a variety of lung diseases, such as COPD, emphysema, asthma, cystic fibrosis, occupational pulmonary diseases and pulmonary hypertension and discusses points for therapeutic intervention. The book also covers translational research and the latest research on prevention and therapeutics. Each chapter includes in-depth insights into the mechanisms associated with lung diseases and into identifying targets for drug development. Bridging the gap between fundamental and translational research, and examining applications in the biomedical and pharmaceutical industry, it is a thought-provoking read for basic and applied scientists engaged in biomedical research.

Bioactive Molecules in Food Jean-Michel Mérillon 2019-04-01 This reference work provides comprehensive information about the bioactive molecules presented in our daily food and their effect on the physical and mental state of our body. Although the

concept of functional food is new, the consumption of selected food to attain a specific effect existed already in ancient civilizations, namely of China and India. Consumers are now more attentive to food quality, safety and health benefits, and the food industry is led to develop processed- and packaged-food, particularly in terms of calories, quality, nutritional value and bioactive molecules. This book covers the entire range of bioactive molecules presented in daily food, such as carbohydrates, proteins, lipids, isoflavonoids, carotenoids, vitamin C, polyphenols, bioactive molecules presented in wine, beer and cider. Concepts like French paradox, Mediterranean diet, healthy diet of eating fruits and vegetables, vegan and vegetarian diet, functional foods are described with suitable case studies. Readers will also discover a very timely compilation of methods for bioactive molecules analysis. Written by highly renowned scientists of the field, this reference work appeals to a wide readership, from graduate students, scholars, researchers in the field of botany, agriculture, pharmacy, biotechnology and food industry to those involved in manufacturing, processing and marketing of value-added food products.

Exploration of the Physiological Effects of Exercise in Cardiovascular Diseases Markos Klonizakis 2020-11-18

Multi-Omics Approaches to Study Signaling Pathways Jyoti Sharma 2020-11-18 This eBook is a collection of articles from a Frontiers Research Topic. Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series: they are collections of at least ten articles, all centered on a particular subject. With their unique mix of varied contributions from Original Research to Review Articles, Frontiers Research Topics unify the most influential researchers, the latest key findings and historical advances in a hot research area! Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office: frontiersin.org/about/contact.

Spine Surgery Alexander R. Vaccaro 2008 Provides guidance on how to perform a wide-variety of techniques in spine surgery. Topics covered include immobilization techniques, anterior and posterior approaches, and thoracic spine surgery.

Spinal Deformity Praveen V. Mummaneni, MD 2008-01-30 The challenge of treating complex spinal deformity often demands innovative solutions and greater skill than the initial surgical intervention; strategic planning is the critical element in successful surgical execution and outcome. Spinal Deformity: A Guide to Surgical Planning and Management, edited and written by the leading experts, is a landmark publication that provides critical information needed to safely plan, stage, and execute operations for the full range of complex spinal deformities. A Virtual Gold Mine of Information This book is an invaluable and practical tool for managing spinal deformities in your practice. Organized into four parts, it begins with a focus on recent advances in spine technology, starting with biomechanics, deformity classification, conservative management, and surgical indications. Subsequent chapters discuss technologic innovations, including spinal biologics, image guidance, and minimally invasive approaches for anterior and posterior spinal fusion. This introductory section is essential reading for the surgeon learning basic technique as well as for the experienced surgeon seeking to refine and enhance skills. The remaining parts focus on state-of-the-art surgical techniques for treating spinal deformity in the cervical spine, the thoracic spine, and the lumbosacral spine. Specific chapters have also been included on managing deformities at the cervicothoracic, thoracolumbar, and lumbosacropelvic junctions. In addition, both open and minimally invasive techniques are described. Organized with a consistent format, each technique chapter includes information on indications, planning and assessment, clinical problem solving, surgical technique, and postoperative care. A Who's Who of Spine Surgery The editors, Drs. Mummaneni, Lenke, and Haid; the part editors, Drs. Benzel, Kuklo, Resnick, and Shaffrey; and the contributors are world-renowned both neurosurgeons and orthopedic surgeons who have extensive experience in treating spinal deformity. Algorithms, Surgical Plans, and Tips and Tricks Aid in the Decision-Making Process Beautifully illustrated with step-by-step surgical technique, this book provides the practical advice, clinical nuances, and learning aids to assist you in the diagnosis and treatment of complex surgical deformities. Numerous imaging modalities are used to demonstrate the preoperative presentation as well as postoperative results. In addition, clinical problem-solving sections with treatment algorithms guide you in selecting the best surgical approach for each patient. Hundreds of case examples demonstrate the excellent results that can be achieved. To enhance the learning experience, an accompanying DVD with operative video is included.

International Conference on Innovative Computing and Communications Deepak Gupta 2020-07-30 This book includes high-quality research papers presented at the Third International Conference on Innovative Computing and Communication (ICICC 2020), which is held at the Shaheed Sukhdev College of Business Studies, University of Delhi, Delhi, India, on 21–23 February, 2020. Introducing the innovative works of scientists, professors, research scholars, students and industrial experts in the field of computing and communication, the book promotes the transformation of fundamental research into institutional and industrialized research and the conversion of applied exploration into real-time applications.

Management of Urological Emergencies Faiz Mumtaz 2004-07-26 Traditionally, information on the management of urological emergencies has been available mainly in large general urological textbooks. Until now. Management of Urological Emergencies presents, in a single volume, a clear, practical account of all urological emergencies. The highly-illustrated book provides detailed discussions of the principles relevant to decision-making and clinical management of all types of urological emergencies. It is a quick reference guide to safe and effective treatment. Covering the management of all aspects of upper and lower urinary tract trauma, obstruction, and infections, the book includes discussions of scrotal, penile, and oncological emergencies as well as the management of septic shock, renal failure, and medical co-morbidities associated with urological emergencies. The information is supported by algorithm charts and top quality radiographic scans, allowing for rapid instigation of the relevant investigations and effective, beneficial treatment. The authors have international reputations in the investigation and management of genito-urinary trauma and reconstruction and they have gathered an excellent list of contributors. It is unusual to see a textbook that covers all of these emergency situations, this feature makes the book a valuable reference and essential reading when preparing for the FRCS (Urol) and other equivalent end-of-training exit examinations.

Female Pelvic Reconstructive Surgery Stuart L. Stanton 2012-12-06 The interest in pelvic floor reconstruction has grown rapidly in recent years. The collaboration between urologists, gynaecologists and colorectal surgeons has also increased. The book covers the surgical anatomy, urinary and faecal incontinence and their treatment, prolapse surgery, fistulae and post-operative management. Female Pelvic Reconstructive Surgery is a multi-disciplinary book edited by Stuart L Stanton, Urogynaecologist, and Phillippe Zimmern, Urologist, with contributions by internationally known and experienced clinicians. The book is well illustrated, up to date and authoritative.

Recent Advances in Natural Products Analysis Seyed Mohammad Nabavi 2020-03-07 Recent Advances in Natural Products Analysis is a thorough guide to the latest analytical methods used for identifying and studying bioactive phytochemicals and other natural products. Chemical compounds, such as flavonoids, alkaloids, carotenoids and saponins are examined, highlighting the many techniques for studying their properties. Each chapter is devoted to a compound category, beginning with the underlying chemical properties of the main components followed by techniques of extraction, purification and fractionation, and then techniques of identification and quantification. Biological activities, possible interactions, levels found in plants, the effects of processing, and current and potential industrial applications are also included. Focuses on the latest analytical techniques used for studying phytochemical and other biological compounds Authored and edited by the top worldwide experts in their field Discusses the current and potential applications and predicts future trends of each compound group

Essential Oil-Bearing Grasses Anand Akhila 2009-08-26 When enjoying a southeast asian soup or cup of herbal tea, we are really savoring the flavor of lemongrass. Similarly, the sweet aroma of mosquito-repelling lotions comes from the citronella oil present in them. Fine perfumes, candles, and herbal pillows with the pleasing smell of rose are often in fact scented with palmarosa. Providing an in-depth look at their history and production, Essential Oil Bearing Grasses: The genus Cymbopogon provides a comprehensive review of these economically important grasses. A detailed examination of chemical constituents and market trends, the book explores the cosmetic, medicinal, and nutritional uses of the plant. It covers the botany, taxonomy, chemistry, and biogenesis of the oils, and their extraction and analytical methods, biotechnology, storage, legislation, and trade. Highlighting industrial uses for the grasses in this genus, the book also includes coverage of the physiological and ecophysiological considerations. It presents a comprehensive overview of most of the cultivated and wild species of cymbopogons. Featuring contributions from a team of international experts, the book describes the considerable ethno-botanical, phytochemical, and pharmacological knowledge associated with the multidimensional uses of the oils. It provides a complete industrial profile that includes market size, geographical sources, export and import data, and industry uses. Its pages offer an invaluable resource for research, cultivation, marketing, or product development of Cymbopogon.

Chemistry for a Clean and Healthy Planet Ponnadurai Ramasami 2019-09-03 These proceedings gather carefully selected, peer-reviewed contributions from the International Conference on Pure and Applied Chemistry (ICPAC 2018). The event, the latest installment in a biennial conference series, was held in July 2018 in Mauritius. The respective chapters in this unique collection reflect a wide range of fundamental and applied research in the chemical sciences and various interdisciplinary subjects. In addition to reviews, they highlight cutting-edge advances.

Bee Products Avshalom Mizrahi 2013-06-29 The nature .and diversity of presentations at the conference on: "Bee Products: Prop erties, Applications and Apitherapy" held at Tel-Aviv on May 26--30, 1996, emphasize the increasing interest of physicians, practitioners, scientists, herbalists, dieticians, cosmeti cians, microbiologists, and beekeepers in different facets of bee products. This volume consists of a selection of 31 contributions presented at the conference and which provide information on the present status of our knowledge in this area. In spite of their diversity, they reflect the mainstream of the conference, namely: "Imported" Prod ucts (honey, pollen and propolis), Exocrine Secretions of Workers (venom, royal jelly). Toxicity and Contaminants, Quality Control, Marketing, Apitherapy, Cosmetics, etc. Since antiquity, honey as well as other bee products were used as food, as a cure for ailments of humans and animals, and as cosmetics. We hope that this volume will contribute to interdisciplinary studies on chemical composition, pharmacological effects, nutrition, and other aspects of bee products. Critical and unbiased experimental research may unravel the yet unknown composition and mode of action of bee products and elucidate many unanswered questions. The noteworthy features of this conference were the participants from all parts of the world and of different cultural backgrounds, who shared their keen interest and curios ity regarding honey bees and their products. We thank all of them for their personal con tribution to the success of this conference.

Targeted Intracellular Drug Delivery by Receptor Mediated Endocytosis Padma V. Devarajan 2019-11-09 This book elaborates on drug delivery targeting via intracellular delivery, specifically through the Receptor Mediated Endocytosis (RME) approach, due to the involvement of cellular receptors in various grave diseases. Targeted delivery relies on two basic approaches, passive and active targeting. While passive targeting approaches have shown great promise, the improved selectivity achieved with active targeting approaches has resulted in significantly higher efficacy. Interestingly there are numerous strategies for active targeting, many of which are already highlighted in , Targeted Drug Delivery: Concepts and Applications. Nevertheless an exciting and practical strategy for active targeting, which could enable high intracellular delivery, is through exploitation of RME. Cells in the body express receptors to enable various physiological and biochemical processes. As a result, many of these receptors are overexpressed in pathological conditions, or newer receptors expressed due to defective cellular functioning. RME is based on exploitation of such receptors to achieve intracellular delivery. While targeted delivery can have manifold applications, in this book we focus on two major and challenging therapeutic areas; i) Cancer and ii) Infectious Diseases. Targeted Intracellular Drug Delivery by Receptor Medicated Endocytosis discusses the major receptors that are useful for targeted delivery for these afflictions. A major section of this book is dedicated to details regarding their occurrence and location, the recognition domain of the receptor, structure activity relationship of substrate /ligand for selective binding, ligands explored, antagonists for ligand binding and relevance of these aspects for therapy of cancer and infectious diseases. These facets are elucidated with the help of specific examples from academic research and also emphasize commercial products, wherever relevant. In vitro cellular models relied on for assessing receptor mediated cellular targeting and in vivo models depicting clinical efficacy are focused on in a separate section. Finally, we briefly discuss the regulatory and toxicity issues that may be associated specifically with the RME approach of

intracellular drug delivery.

Functional Food and Human Health Vibha Rani 2018-10-12 Global health and the increasing incidence of various diseases are a cause for concern, and doctors and scientists reason that the diet, food habits and lifestyle are contributing factors. Processed food has reduced the nutritional value of our diet, and although supplementing foods with various additives is considered an alternative, the long-term impact of this is not known. Many laboratories around the world are working to identify various nutritional components in our daily food and their effect on human health. These have been classified as Nutraceuticals or functional food, and they may have preventive and therapeutic effects in a number of pathologies associated with modern dietary habits and lifestyles. This book addresses various aspects of this issue, revitalizing the discussion and consolidating the latest research on nutritional and functional food and their effects in in-vitro, in-vivo and human clinical studies.

Growing Plantation Forests P. W. West 2013-10-21 This book describes the scientific principles that are used throughout the world to ensure the rapid, healthy growth of forest plantations. As the population of the world increases so does the amount of wood people use. Large areas of natural forests are being cleared every year and converted to other uses. Almost as large an area of plantation forests is being established annually to replace those lost natural forests. Eventually, plantations will produce a large proportion of the wood used around the world for firewood, building, the manufacture of paper and bioenergy. Forest plantations can also provide various environmental benefits including carbon storage, rehabilitation of degraded land, serving as disposal sites for various forms of industrial or agricultural waste and enhancing biodiversity in regions that have been largely cleared for agriculture. Whatever their motivation, plantation forest growers want their plantations to be healthy and grow rapidly to achieve their purpose as soon as possible. This book discusses how this is done. It is written for a worldwide audience, from forestry professionals and scientists through to small plantation growers, and describes how plantations may be grown responsibly and profitably.

Craniofacial Muscles Linda K. McLoon 2012-09-13 Of the approximately 640 muscles in the human body, over 10% of them are found in the craniofacial region. The craniofacial muscles are involved in a number of crucial non-locomotor activities, and are critical to the most basic functions of life, including vision, taste, chewing and food manipulation, swallowing, respiration, speech, as well as regulating facial expression and controlling facial aperture patency. Despite their importance, the biology of these small skeletal muscles is relatively unexplored. Only recently have we begun to understand their unique embryonic development and the genes that control it and characteristic features that separate them from the skeletal muscle stereotype. This book is the most comprehensive reference to date on craniofacial muscle development, structure, function, and disease. It details the state-of-the-art basic science of the craniofacial muscles, and describes their unique response to major neuromuscular conditions. Most importantly, the text highlights how the craniofacial muscles are different from most skeletal muscles, and why they have been viewed as a distinct allotype. In addition, the text points to major gaps in our knowledge about these very important skeletal muscles and identified key gaps in our knowledge and areas primed for further study and discovery.