Alberto Do Nascimento Silva1 1c Cero C Lio De Figueiredo

The first book to specifically cover the molecular biology of retroviruses - of immense importance since the high profile of HIV. International contributors provide detailed reviews of the latest knowledge. An excellent text for both medical and non-medical researchers, it also serves as an illuminating introduction for scientists active in other areas.
Relativistic Quantum Mechanics. Wave Equations concentrates mainly on the wave equations for spin-0 and spin-1/2 particles. Chapter 1 deals with the Klein-Gordon equation and its properties and applications. The chapters that follow introduce the Dirac equation, investigate its covariance properties and present various approaches to obtaining solutions. Numerous applications are discussed in detail, including the two-center Dirac equation, hole theory, CPT symmetry, Klein's paradox, and relativistic symmetry principles. Chapter 15 presents the relativistic wave equations for higher spin (Proca, Rarita-Schwinger, and Bargmann-Wigner). The extensive presentation of the mathematical tools and the 62 worked examples and problems make this a unique text for an advanced quantum mechanics course. This third edition has been slightly revised to bring the text up-to-date.
This publication provides an update on the current status of gene maps in different livestock and pet/companion animal species. The findings summarized in species specific commentaries and original articles testify the rapid advances made in the field of animal genomics. Of significant interest is the fact that current investigations are providing headways for two important and exciting research fronts: targeted high-resolution mapping leading to the application of genomic information in addressing questions of economic and biological significance in animals, and the initiation of whole genome sequencing projects for some of the animal species. Like in humans and mice, this will set the stage for a new level of research and real time complex analysis of the genomes of these species. Animal Genomics signifies the beginning of a new era in this field and celebrates the achievements of the past 20 years of genomics research. It will be of special interest to researchers involved in genome analysis - both gross chromosomal as well as molecular - in various animal species, comparative and evolutionary geneticists.
Food forensics is a multi-disciplinary science involving advanced analytical techniques, plant and animal metabolism, and sophisticated data interpretation tools. This book explains how plants, and in turn animals eating those plants, assimilate stable isotopes and trace elements from their environments. It provides extensive reviews of the use of stable isotope and trace element measurements for the authentication of major food groups and how these can be used to detect fraudsters. The book emphasises the use of correct methods for preparation and measurement so that data can be compared to existing datasets, with a dedicated chapter discussing interpretations.
Neurodegeneration in Multiple Sclerosis
Seccao 1
Autoimmune Rheumatic Disease
Diario Oficial
The Growing Threat
Bean Production Problems
This book constitutes the thoroughly refereed post-conference proceedings of the 6th International ICST Conference on Mobile Multimedia Communications (MOBIMEDIA 2010) held in Lisbon, Portugal, in September 2010, which was accompanied by the First International Workshop on Cognitive Radio and Cooperative Strategies for POWER Saving (C2POWER 2010), the Workshop on Impact of Scalable Video Coding on Multimedia Provisioning (SVCVision 2010), and the First International Workshop on Energy-efficient and Reconfigurable Transceivers (EERT 2010). The 59 revised full papers presented were carefully reviewed and selected from numerous submissions and are organized in topical sections on advanced techniques for video transmission; multimedia distribution; modelling of wireless systems; cellular networks; mobility concepts for IMT-advances (MOBILIA); media independent handovers (MIH-4-MEDIA); and IP-based emergency applications and services for next generation networks (PEACE).
In vitro fertilization has resulted in an estimated 4000-5000 births in the world. The procedure has been accepted in Europe, America and Australia and several hundred IVF clinics are operating successfully. The newer procedures of GIFf, embryo freezing and donor oocyte IVF have become established and are dealt with in several chapters. GIFf has become the procedure of choice for patients with infertility of unknown origin. Oocyte freezing represents an important new technology which is being developed. The routine IVF procedure has improved slightly; variation in results can be reduced by quality control of laboratory and clinical techniques. Male factor infertility has been dealt with by IVF in mild and moderate cases, but newer techniques will be required to deal with severe problems in the male. Most countries have accepted that the straightforward IVF pro cedure is ethical. Limitations concerning the use of donor oocytes and embryo experimentation exist in some religions and countries; legal control of the new reproductive technologies ranges from the passage of statutes to no control at all. Many countries are still considering the need for legislative control. The text endeavours to indicate new areas of importance and to guide those organizing services as to how to introduce newer technolo gies.
This essential volume comprehensively discusses redox-active therapeutics, focusing particularly on their molecular design, mechanistic, pharmacological and medicinal aspects. The first section of the book describes the basic aspects of the chemistry and biology of redox-active drugs and includes a brief overview of the redox-based pathways involved in cancer and the medical aspects of redox-active drugs, assuming little in the way of prior knowledge. Subsequent sections and chapters describe more specialized aspects of central nervous system injuries, neurodegenerative diseases, pain, radiation injury and radioprotection (such as of brain, lungs, head and neck and erectile function) and neglected diseases (e.g., leishmaniasis). It encompasses several major classes of redox-active experimental therapeutics, which include porphyrins, salens, nitrones, and most notably metal-containing (e.g., Mn, Fe, Cu, Zn, Sb) drugs as either single compounds or formulations with nanomaterials and quantum dots. Numerous illustrations, tables and figures enhance and complement the text; extensive references to relevant literature are also included. Redox-Active Therapeutics is an invaluable addition to Springer's Oxidative Stress in Applied Basic Research and Clinical Practice series. It is essential reading for researchers, clinicians and graduate students interested in understanding and exploring the Redoxome—the organism redox network—as an emerging frontier in drug design, redox biology and medicine.
This book provides a detailed overview of the latest innovations in respiratory endoscopy, from both diagnostic and therapeutic perspectives; each chapter focuses on one disease and the techniques for early diagnosis as well as treatment. It comprehensively covers treatment and procedures, including simultaneous X-ray fluoroscopy and its use during bronchoscopic procedures. This fast-developing technology is essential for the medical management of non-malignant and malignant diseases of the chest, especially lung cancer. Respiratory Endoscopy describes the cooperation between all the members of the healthcare team, and as such is a valuable resource not only for medical staff, but also for radiological technicians and nursing staff who contribute significantly in the care of the patients undergoing these invasive procedures. By promoting teamwork and providing practical know-how, it will improve the success and safety of respiratory endoscopy procedures.
Fungal Pathogenesis in Humans
XXVI Brazilian Congress on Biomedical Engineering
Polk's Bank Directory
Occupational Safety and Hygiene IV
6th International Workshop, PROPOR 2003, Faro, Portugal, June 26-27, 2003. Proceedings
Book of Abstracts of the 65th Annual Meeting of the European Association for Animal Production
Narrative examples of common situations demonstrate how conversations about medical error can lead to healing.
Food emulsions have existed since long before people began to process foods for distribution and consumption. Milk, for example, is a natural emulsion/colloid in which a nutritional fat is stabilized by a milk-fat-globule membrane. Early processed foods were developed when people began to explore the art of cuisine. Butter and gravies were early foods used to enhance flavors and aid in cooking. By contrast, food emulsifiers have only recently been recognized for their abil ity to stabilize foods during processing and distribution. As economies of scale emerged, pressures for higher quality and extension of shelf life prodded the de velopment of food emulsifiers and their adjunct technologies. Natural emulsifiers, such as egg and milk proteins and phospholipids, were the first to be generally utilized. Development of technologies for processing oils, such as refining, bleaching, and hydrogenation, led to the design of synthetic food emulsifiers. Formulation of food emulsions has, until recently, been practiced more as an art than a science. The complexity offood systems has been the barrier to funda mental understanding. Scientists have long studied emulsions using pure water, hydrocarbon, and surfactant, but food systems, by contrast, are typically a com plex mixture of carbohydrate, lipid, protein, salts, and acid. Other surface-active ingredients, such as proteins and phospholipids, can demonstrate either syner- XV xvi Preface gistic or deleterious functionality during processing or in the finished food.
The book Autoimmune Rheumatic Disease (second edition) is a new fully revised edition of the award winning title. It fills the gap in the literature in that no other book bridges the divide between the clinical characterisation and treatment of autoimmune rheumatic diseases on the one hand and an understanding of laboratory-based research and disease pathogenesis on the other. This second edition is especially important because it describes and explains the advances in molecular biological techniques that have brought about major changes in understanding and also covers the new therapies which have been developed for many autoimmune rheumatic diseases.
Bio-Inorganic compounds are successfully applied as therapeutic agents since decades. Thus, scientist designed new metal complexes bearing biomolecules as ligands, investigating their potential as bioactive and therapeutic agents. This book presents a comprehensive overview on materials design, substance classes and their characterization. This book is compiled for scientists interested in medical application of bioinspired materials.
Copenhagen, Denmark, 25 - 28 August 2014
Characterization of Minerals, Metals, and Materials 2015
Disease, Insect, Soil and Climatic Constraints of Phaseolus Vulgaris
Seccao 2
Lower Urinary Tract Dysfunction
Biological Activities and Application of Marine Polysaccharides
This volume presents the proceedings of the Brazilian Congress on Biomedical Engineering (CBEB 2018). The conference was organised by the Brazilian Society on Biomedical Engineering (SBEB) and held in Armação de Buzios, Rio de Janeiro, Brazil from 21-25 October, 2018. Topics of the proceedings include these 11 tracks: ▯ Bioengineering ▯ Biomaterials, Tissue Engineering and Artificial Organs ▯ Biomechanics and Rehabilitation ▯ Biomedical Devices and Instrumentation ▯ Biomedical Robotics, Assistive Technologies and Health Informatics ▯ Clinical Engineering and Health Technology Assessment ▯ Metrology, Standardization, Testing and Quality in Health ▯ Biomedical Signal and Image Processing ▯ Neural Engineering ▯ Special Topics ▯ Systems and Technologies for Therapy and Diagnosis
Occupational Safety and Hygiene presents selected papers from the International Symposium on Occupational Safety and Hygiene – SHO2013 (Guimarães, Portugal, 14-15 February 2013), which was organized by the Portuguese Society for Occupational Safety and Hygiene (SPOSHO). The contributions from 15 different countries focus on: - Occupational safety - Risk assessment - Safety management - Ergonomics - Management systems - Environmental ergonomics - Physical environments - Construction safety - Human factors The papers included in the book are mainly based on research carried out at universities and other research institutions, but they are also based on practical studies developed by Occupational Health & Safety (OHS) practitioners within their companies. As a result, this book will be useful to get acquainted with the state-of-the-art of the research within the aforementioned domains, as well as with some practical tools and approaches that are currently used by OHS professionals worldwide.
In Why Political Liberalism?, Paul Weithman offers a fresh, rigorous, and compelling interpretation of John Rawls's reasons for taking his so-called "political turn". Weithman takes Rawls at his word that justice as fairness was recast as a form of political liberalism because of an inconsistency Rawls found in his early treatment of social stability. He argues that the inconsistency is best seen by identifying the threats to stability with which the early Rawls was concerned. One of those threats, often overlooked by Rawls's readers, is the threat that the justice of a well-ordered society would be undermined by a generalized prisoner's dilemma. Showing how the Rawls of "A Theory of Justice" tried to avert that threat shows that the much-neglected third part of that book is of considerably greater philosophical interest, and has considerably more unity of focus, than is generally appreciated. Weithman painstakingly reconstructs Rawls's attempts to show that a just society would be stable, and just as carefully shows why Rawls came to think those arguments were inconsistent with other parts of his theory. Weithman then shows that the changes Rawls introduced into his view between "Theory of Justice" and "Political Liberalism" result from his attempt to remove the inconsistency and show that the hazard of the generalized prisoner's dilemma can be averted after all. Recovering Rawls's two treatments of stability helps to answer contested questions about the role of the original position and the foundations of justice as fairness. The result is a powerful and unified reading of Rawls's work that explains his political turn and shows his enduring engagement with some of the deepest concerns of human life.
Prefeitura do distrito.
Cyclized Helical Peptides
Stable Isotopes as a Guide to Authenticity and Origin
12th Portuguese Conference on Artificial Intelligence, EPIA 2005, Covilha, Portugal, December 5-8, 2005, Proceedings
6th International ICST Conference, MOBIMEDIA 2010, Lisbon, Portugal, September 6-8, 2010. Revised Selected Papers
Food Emulsifiers and Their Applications
Why Political Liberalism?
An important and timely guide to the progress being made on constrained helical peptides Constraint helical peptides have emerged as a solution to target previously undruggable protein-protein interactions, which feature large and complex surfaces. Cyclized Helical Peptides: Synthesis, Properties and Therapeutic Applications offers a review of the most current methodologies of constructing constrained helices. The authors noted experts on the topic include the information on the fundamental features of cyclized helical peptides and discuss their limitations. The book summarizes and explores the effects of chemical methods constructing helical peptides on helicity, binding affinity, cell penetration, and nonspecific toxicity. The book examines the therapeutic applications of the constraint helices and includes comparison with existing small molecule modulators or antibodies. Designed as a useful resource for both those outside and inside the field. Those new to the field will find a comprehensive introduction to cyclized helical peptide and those inside the field will find a deeper understanding of the topic. This important book: Offers a practical introduction to constrained helical peptides Includes all aspects of constrained helical peptides Includes information on the most recent methods that have emerged Presents a guide to help solve practical problems in the field Written for academics, pharmaceutical professional, Cyclized Helical Peptides is a comprehensive guide to the developments of constrained helical peptides.
Laws, decrees, and administrative acts of government.
Flavonoids exert a multiplicity of biological effects on humans and can have beneficial implications for numerous disease states. Flavonoids and Related Compounds: Bioavailability and Function examines current knowledge regarding the absorption, metabolism, and bioavailability of individual flavonoids and related phenolic compounds. Profiling the latest evidence of their impact on various human pathological conditions, the book summarizes current thinking with regard to the biotransformation and conjugation of individual compounds in the gastrointestinal tract, liver, large intestine, and cells. It highlights a topic that has been largely ignored—namely the extent to which dietary phenolics components undergo metabolism in the large intestine. It also explores the generation of bacterially derived metabolites. Individual chapters discuss which metabolites enter the circulatory system and are likely to offer protective actions against human diseases. Edited by internationally recognized leaders in the field, the book presents contributions by a panel of experts who demonstrate the potential of flavonoids in ameliorating a range of disease states, including cardiovascular disease, Alzheimer's and Parkinson's disease and other neurodegenerative disorders, and cancer. The research presented in this volume provides a reliable starting point for further inquiry and experimentation.
This series of books, which is published at the rate of about one per year, addresses fundamental problems in materials science. The contents cover a broad range of topics from small clusters of atoms to engineering materials and involve chemistry, physics, materials science, and engineering, with length scales ranging from Ångstroms up to millimeters. The emphasis is on basic science rather than on applications. Each book focuses on a single area of current interest and brings together leading experts to give an up-to-date discussion of their work and the work of others. Each article contains enough references that the interested reader can access the relevant literature. Thanks are given to the Center for Fundamental Materials Research at Michigan State University for supporting this series. M. F. Thorpe, Series Editor E-mail: thorpe@pa. msu. edu East Lansing, Michigan V PREFACE It is hard to believe that not quite ten years ago, namely in 1991, nanotubes of carbon were discovered by Sumio Iijima in deposits on the electrodes of the same carbon arc apparatus that was used to produce fullerenes such as the "buckyball". Nanotubes of carbon or other materials, consisting ofhollow cylinders that are only a few nanometers in diameter, yet up to millimeters long, are amazing structures that self-assemble under extreme conditions. Their quasi-one-dimensional character and virtual absence of atomic defects give rise to a plethora of unusual phenomena.
Animal Genomics
On John Rawls's Political Turn
Synthesis, Properties and Therapeutic Applications
Diagnosis and Management of Nutrient Constraints
Food Forensics
Progress in Artificial Intelligence
Agriculture and Industry in Brazil is a study of the economics of Brazilian agriculture and industry, with a special focus on the importance of innovation to productivity growth. Albert Fishlow and José Eustáquio Ribeiro Vieira Filho examine technological change in Brazil, highlighting the role of public policy in building institutions and creating an innovation-oriented environment. Fishlow and Vieira Filho tackle the theme of innovation from various angles. They contrast the relationship between state involvement and the private sector in key parts of the Brazilian economy and compare agricultural expansion with growth in the oil and aviation sectors. Fishlow and Vieira Filho argue that modern agriculture is a knowledge-intensive industry and its success in Brazil stems from public institution building. They demonstrate how research has played a key role in productivity growth, showing how prudent innovation policies can leverage knowledge not only within a particular company but also across whole sectors of the economy. The book discusses whether and how Brazil can serve as a model for other middle-income countries eager to achieve higher growth and a more egalitarian distribution of income. An important contribution to comparative, international, and development economics, Agriculture and Industry in Brazil shows how the public success in agriculture became a prototype for advance elsewhere.
Occupational Safety and Hygiene IV covers a wide variety of topics, including but not limited to:- Occupational Safety- Risk Assessment- Ergonomics- Management Systems- Physical Environment - Construction Safety, and - Human FactorsThis compilation of papers in the domain of occupational safety and hygiene is mainly based on research works carried
This book constitutes the refereed proceedings of the 12th Portuguese Conference on Artificial Intelligence, EPIA 2005, held in Covilhã, Portugal in December 2005 as nine integrated workshops. The 58 revised full papers presented were carefully reviewed and selected from a total of 167 submissions. In accordance with the nine constituting workshops, the papers are organized in topical sections on general artificial intelligence (GAIW 2005), affective computing (AC 2005), artificial life and evolutionary algorithms (ALEA 2005), building and applying ontologies for the semantic Web (BAOSW 2005), computational methods in bioinformatics (CMB 2005), extracting knowledge from databases and warehouses (EKDB&W 2005), intelligent robotics (IROBOT 2005), multi-agent systems: theory and applications (MASTA 2005), and text mining and applications (TEMA 2005).
Fruit Crops: Diagnosis and Management of Nutrient Constraints is the first and only resource to holistically relate fruits as a nutritional source for human health to the state-of-the-art methodologies currently used to diagnose and manage nutritional constraints placed on those fruits. This book explores a variety of advanced management techniques, including open field hydroponic, fertigation/bio-fertigation, the use of nano-fertilizers, sensors-based nutrient management, climate- smart integrated soil fertility management, inoculation with microbial consortium, and endophytes backed up by ecophysiology of fruit crops. These intricate issues are effectively presented, including real-world applications and future insights. Presents the latest research, including issues with commercial application Details comprehensive insights into the diagnosis and management of nutrient constraints Includes contributions by world renowned researchers, providing global perspectives and experience
Talking with Patients and Families about Medical Error
Science and Application of Nanotubes

Relativistic Quantum Mechanics. Wave Equations
Innovation and Competitiveness
Mobile Multimedia Communications
This Book of Abstracts is the main publication of the 65th Annual Meeting of the European Federation for Animal Science 2014 in Copenhagen, Denmark. It contains abstracts of the invited papers and contributed presentations. The meeting addressed subjects relating to science and innovation.Important problems were also discussed during the sessions of EAAP's nine Commissions: Animal Genetics, Animal Nutrition, Animal Management and Health, Animal Physiology, Cattle Production, Sheep and Goat Production, Pig Production, Horse Production and Livestock Farming Systems.
Dear Colleagues, Cancer survival rates and successful organ transplantation in patients continues to increase due to improvements in early diagnosis and treatments. Since immuno-suppressive therapies are frequently used, the mortality rate due to secondary infections has become an ever-increasing problem. Opportunistic fungal infections are probably the deadliest threat to these patients due to their difficult early diagnosis, the limited effect of antifungal drugs and the appearance of resistances. In recent years, a considerable effort has been devoted to investigating the role of many virulence traits in the pathogenic outcome of fungal infections. New virulence factors (hypoxia adaptation, CO2 sensing, pH regulation, micronutrient acquisition, secondary metabolites, immunity regulators, etc.) have been reported and their molecular mechanisms of action are being thoroughly investigated. The recent application of gene-editing technologies such as CRISPr-Cas9, has opened a whole new window to the discovery of new fungal virulence factors. Accurate fungal genotyping, Next Generation Sequencing and RNAseq approaches will undoubtedly provide new clues to interpret the plethora of molecular interactions controlling these complex systems. Unraveling their intimate regulatory details will provide insights for a more target-focused search or a rational design of more specific antifungal agents. This Special Issue is show significant discoveries, proofs of concept of new theories or relevant observations in fungal pathogenesis and its regulation. Dr. Fernando Leal Guest Editor
Lower urinary tract dysfunction (LUTD) is an umbrella diagnosis that covers the abnormalities of anatomy and function in the bladder, urethra, and, in men, the prostate. People with LUTD face a number of social, mental, and physical health effects due to the symptoms. Despite the increasing evidence in the assessment and management of lower urinary tract symptoms, it remains a challenge to bridge the gap between research evidence and clinical practice. In this book, each and every one of the authors presents a remarkable work for how to apply the evidence to clinical practice from different aspects. I hope this book is a key for every reader to open the door to LUTD.
This research work plays an important role in transforming current conventional methodology in fruit quality definition and evaluation into scientific and technological objectives and implementation. Conventional definition in evaluating fruit quality is based on its physical attributes such as colour, size, shape and percentage of physical defects. While the conventional practice is dominating fruit industry, the efforts to transform this conventional definition towards a more valuable and scientific interpretation has been put forth by various research groups worldwide. For every presented variable, evaluating or quantifying methodologies will be introduced and promoted by scientific societies. Similarly to fruit quality evaluation, several methodologies have been introduced, based on its physical or intrinsic definition. Despite many efforts that have been carried out in this research area, gaps still exist for the new research to take place especially in the area related to development of low cost measuring system, miniature and mobile system, online monitoring system with rapid time of measurement and high accuracy and precision measurement algorithm. Hence, this book is written particularly to explore the ability of visible and near infrared spectroscopy in quantitatively determining fruit intrinsic qualities with in-depth case studies on two prominent tropical fruits, Sala mango and B10 carambola.
Flavonoids and Related Compounds
A Guide for Education and Practice
Spectroscopy of Tropical Fruits: Sala Mango and B10 Carambola (Penerbit USM)
From Evidence to Clinical Practice
Recent Advances In Fructooligosaccharides Research
Neonatal and Pediatric Intensive Care
This collection focuses on the characterization of minerals, metals, and materials as well as the application of characterization results on the processing of these materials. Papers cover topics such as clays, ceramics, composites, ferrous metals, non-ferrous metals, minerals, electronic materials, magnetic materials, environmental materials, advanced materials, and soft materials. In addition, papers covering materials extraction, materials processing, corrosion, welding, solidification, and method development are included. This book provides a current snapshot of characterization in materials science and its role in validating, informing, and driving current theories in the field of materials science. This volume will serve the dual purpose of furnishing a broad introduction of the field to novices while simultaneously serving to keep subject matter experts up-to-date.
Heun's equation is a second-order differential equation which crops up in a variety of forms in a wide range of problems in applied mathematics. These include integral equations of potential theory, wave propogation, electrostatic oscillation, and Schrodinger's equation. This volume bringstogether important research work for the first time, providing an important resource for all those interested in this mathematical topic. Both the current theory and the main areas of application are surveyed, and includes contributions from authoritative researchers such as Felix Arscott (Canada),P. Maroni (France), and Gerhard Wolf (Germany).
The refereed proceedings of the 6th International Workshop on Computational Processing of the Portuguese Language, PROPOR 2003, held in Faro, Portugal, in June 2003. The 24 revised full papers and 17 revised short papers presented were carefully reviewed and selected from 64 submissions. The papers are organized in topical sections on speech analysis and recognition; speech synthesis; pragmatics, discourse, semantics, syntax, and the lexicon; tools, resources, and applications; dialogue systems; summarization and information extraction; and evaluation.
Marine organisms have been under research for the last decades as a source for different active compounds with various biological activities and application in agriculture, pharmacy, medicine, environment, and industries. Marine polysaccharides from these active compounds are used as antibacterial, antiviral, antioxidant, anti-inflammation, bioremediations, etc. During the last three decades, several important factors that control the production of phytoplankton polysaccharides have been identified such as chemical concentrations, temperature, light, etc. The current book includes 14 chapters contributed by experts around the world; the chapters are categorized into three sections: Marine Polysaccharides and Agriculture, Marine Polysaccharides and Biological Activities, and Marine Polysaccharides and Industries.
New-Generation Bioinorganic Complexes
CBEB 2018, Armação de Buzios, RJ, Brazil, 21-25 October 2018
Fruit Crops
Omphaloplasty
Respiratory Endoscopy
Mesenchymal Stem Cells and Immunomodulation
This essential volume explores mesenchymal stem cells (MSCs) and their potential to suppress immune-mediated inflammation. The chapters examine applications in autoimmune diseases such as lupus, rheumatoid arthritis and multiple sclerosis; blood cancers such as leukemia and lymphoma; and reproductive complications, specifically pre-term labor and use of MSCs in vitro and in animal models to discover methods of suppressing the causal inflammatory response. It also further defines the methodologies required to develop research on MSCs in vitro into established preclinical animal models including those which are proven replicas of autoimmunity and pre-term labor, to name but two. Mesenchymal Stem Cells and Immunomodulation, part of Springer's Stem Cell Biology and Regenerative Medicine, is an invaluable resource for researchers and clinicians working with stem cells, autoimmune disease, oncology, and reproductive medicine.
Written by world-renowned scientists, the volume provides a state-of-the-art on the most recent MRI techniques related to MS, and it is an indispensable tool for all those working in this field. The context in which this book exists is that there is an increasing perception that modern MR methodologies should be more extensively employed in clinical trials to derive innovative information.
Exotic Fruits Reference Guide is the ultimate, most complete reference work on exotic fruits from around the world. The book focuses on exotic fruit origin, botanical aspects, cultivation and harvest, physiology and biochemistry, chemical composition and nutritional value, including phenolics and antioxidant compounds. This guide is in four-color and contains images of the fruits, in addition to their regional names and geographical locations. Harvest and post-harvest conservation, as well as the potential for industrialization, are also presented as a way of stimulating interest in consumption and large scale production. Covers exotic fruits found all over the world, described by a team of global contributors Provides quick and easy access to botanical information, biochemistry, fruit processing and nutritional value Features four-color images throughout for each fruit, along with its regional name and geographical location Serves as a useful reference for researchers, industrial practitioners and students
This book offers an essential guide to surgical approaches to the umbilicus. The navel is the only natural scar in the body, accepted for all human beings all over the world. Its absence or distortions can have negative psychological impacts, as it normally lends beauty and harmony to the otherwise unattractive abdomen. The aesthetic importance of the navel justifies the increasing amount of individuals undergoing abdominoplasty and omphaloplasty. However, these surgeries may lead to a series of complications or unintended aesthetic outcomes. Indeed, the postsurgical final aspect of the umbilicus is the main stigma and primary source of problems and complaints following abdominoplasty. In this book readers will find a complete surgical guide to the most important surgical approaches and strategies related to the navel, helping them to deliver a high standard of quality and patient-tailored surgical and aesthetic outcomes. Written by a renowned plastic surgeons with more than 20 years of experience, Omphaloplasty - A Surgical Guide of the Umbilicus offers readers an overview of general and innovative surgical techniques for the umbilicus, helping them to make the best choice when performing abdominoplasties.
Occupational Safety and Hygiene
Heun's Differential Equations
Bioavailability and Function
Clinical In Vitro Fertilization
Computational Processing of the Portuguese Language
Redox-Active Therapeutics