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**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 Mediated 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.

**Composite Materials** Kamal K. Kar 2016-10-14 Composite materials are used as substitutions of metals/traditional materials in aerospace, automotive, civil, mechanical and other industries. The present book collects the current knowledge and recent developments in the characterization and application of composite materials. To this purpose the volume describes the outstanding properties of this class of advanced material which recommend it for various industrial applications.

**Primary Angioplasty** Timothy J Watson 2018-07-13 This book is open access under a CC BY 4.0 license. This quick-reference handbook offers a concise and practical review of key aspects of the treatment of ST-segment elevation myocardial infarction (STEMI) in the era of primary percutaneous coronary intervention (PPCI). In the context of STEMI, PPCI is the preferred mode of emergency revascularization. Access to PPCI is rapidly increasing and is now routinely practiced in both general and specialist hospitals and there has been a recent emphasis on developing STEMI networks to enhance and expedite the referral pathway. This coupled with concurrent developments to enhance the safety and efficacy of the PPCI procedure has heralded an era where STEMI interventions are increasingly considered an important subspecialty within interventional cardiology. Written by leading cardiologists who have been instrumental in the adoption of PPCI in their respective institutions, the book provides junior and senior cardiologists alike with insightful and thought-provoking tips and tricks to enhance the success of PPCI procedures, which may in turn translate into direct improvements in outcomes. The book is also relevant for healthcare providers and emergency department physicians.

**Tumor Board Review** Robert F. Todd 2011-10-19 Tumor Board Reviews provides comprehensive coverage of all topics in oncology. Each of the 32 chapters focuses on a specific major disease. A brief overview of epidemiology and risk factors is followed by a sequence of specific presentations organized by tumors stage or disease classification. Each discussion features a case presentation that mimics the format of a tumor board presentation and thus illustrates key diagnostic and management decisions. There is also a discussion of the evidence that supports the clinical management decisions taken in the case, based on current expert panel guidelines. Algorithms and decision tree graphics are used extensively to provide visual support of the decision process. The combination of case presentations and evidence-based management discussions make this volume a unique tool for keeping current with clinical guidelines and provides the reader with a clear understanding of applications of new information for use in daily practice.

**Nutrition and Enhanced Sports Performance** Debasis Bagchi 2013-07-26 Nutrition and Enhanced Sports Performance: Muscle Building, Endurance, and Strength provides a comprehensive overview to understanding the integrated impact of nutrition on performance. The book is divided into five main themes: An introductory overview of the role of nutrition in human health Various types of physical exercises, including cardiovascular training, resistance training, aerobic and anaerobic exercise, bioenergetics, and energy balance. This section also covers the nutritional requirements associated with various fitness programs, as well as exercise and nutritional requirements in special populations, including the pre-pubertal, young, elderly, and disabled. Sports and nutritional requirements. The molecular mechanisms involved in muscle building A thorough review of various food, minerals, supplements, phytochemicals, amino acids, transition metals, small molecules and other ergogenic agents that have been implicated in muscle building and human performance This book is an ideal resource for nutritionists, dietitians, exercise physiologists, health practitioners, researchers, students, athletes, trainers, and all those who wish to broaden their knowledge of nutrition and its role in human performance. Discusses the impact of nutrition, including food, minerals, vitamins, hormones, trace elements, etc., that can significantly attenuate/improve human performance and sports Addresses the molecular and cellular pathways involved in the physiology of muscle growth and the mechanisms by which nutrients affect muscle health, growth and maintenance Encompasses multiple forms of sports/performance and the salient contribution of appropriate nutrition on special populations, including nutritional guidelines and recommendations to athletes Strong focus on muscle building

**Modern Phytomedicine** Iqbal Ahmad 2006-12-13 This timely and original handbook paves the way to success in plant-based drug development, systematically addressing the issues facing a pharmaceutical scientist who wants to turn a plant compound into a safe and effective drug. Plant pharmacologists from around the world demonstrate the potentials and pitfalls involved, with many of the studies and experiments reported here published for the first time. The result is a valuable source of information unavailable elsewhere.

**Ovarian Cancer Biomarkers** Khalid El Bairi 2021-10-09 This book comprehensively summarizes the biology, etiology, and pathology of ovarian cancer and explores the role of deep molecular and cellular profiling in the advancement of precision medicine. The initial chapter discusses our current understanding of the origin, development, progression and tumorigenesis of ovarian cancer. In turn, the book highlights the development of resistance, disease occurrence, and poor prognosis that are the hallmarks of ovarian cancer. The book then reviews the role of deep molecular and cellular profiling to overcome challenges that are associated with the treatment of ovarian cancer. It explores the use of genome-wide association analysis to identify genetic variants for the evaluation of ovarian carcinoma risk and prognostic prediction. Lastly, it highlights various diagnostic and prognostic ovarian cancer biomarkers for the development of molecular-targeted therapy.

**Development of the Cerebellum from Molecular Aspects to Diseases** Hassan Marzban 2017-07-27 The authors present the most current and cutting-edge knowledge regarding the molecular basis of cerebellar development, focusing on information relevant to laboratory scientists and clinicians providing service to patients with cerebellar disorders. Knowledge obtained from advanced neuroimaging techniques that are used during development, and from

molecular- and genetic-based studies has provided rapidly-growing evidence that the cerebellum is a brain region that is highly impacted by developmental defects. Cerebellar defects result in significant intellectual and motor function impairment that affects both the patients and their families.

**Evidence-Based Approach to Phytochemicals and Other Dietary Factors** Jane Higdon 2012-07-18 From Reviews of the First Edition: Dr. Higdon has given the healthcare providers, especially dietitians, nurses, physicians, and researchers who seek to understand phytochemicals an authoritative yet easy to use book.-- **Phytomedicine: International Journal of Phytotherapy & Phytopharmacology** I highly recommend this monograph for physicians, dietitians, and other health practitioners as well as the health-aware public. It captures what you need to know in a succinct but comprehensive fashion. -- **American Journal of Lifestyle Medicine** Now in a completely updated second edition, **An Evidence-based Approach to Dietary Phytochemicals and Other Dietary Factors** is a trusted resource for all health professionals who need to interpret the explosion of information on the role of a plant-based diet in health and disease. It consolidates a wealth of scientifically accurate, peer-reviewed data on plant foods, dietary phytochemicals, and dietary supplements, and includes information on essential intake recommendations, dietary sources, nutrient and drug interactions, phytochemicals in disease prevention, possible adverse effects, and much more. Special features: All chapters revised and updated, with new sections on choline, coenzyme Q10, L-Carnitine, lipoic acid, and other dietary factors Logically structured for quick access to information begins with the evidence-based benefits of fruits and vegetables, legumes, nuts, whole grains, coffee, and tea; and goes on to the scientific and clinical data on individual dietary phytochemicals and classes of phytochemicals, including carotenoids, flavonoids, fiber, and more Summaries at the end of each chapter for rapid review Peer-reviewed by experts in the field, ensuring that all material is accurate and up-to-date The well-constructed appendix includes not only a quick reference to diseases and foods and where to find them in the book; but also useful tables on phytochemical-drug interactions, phytochemical-nutrient interactions, and phytochemical-rich foods; a summary of the glycemic index of dietary carbohydrates; and a comprehensive glossary of terms Concisely synthesizing a huge amount of epidemiological and clinical research and emphasizing the importance of a phytochemical-rich diet over dietary supplements, this book is ideal for nutritionists, dietitians, nurses, and other health care professionals who need to educate patients about sound food choices. Students in graduate programs in nutrition, food science, pharmacy, and allied health fields will also find the abundance of rigorous, scientifically accurate information essential in their studies.

**Byproducts from Agriculture and Fisheries** Benjamin K. Simpson 2019-11-04 Ranging from biofuels to building materials, and from cosmetics to pharmaceuticals, the list of products that may be manufactured using discards from farming and fishery operations is extensive. **Byproducts from Agriculture and Fisheries** examines the procedures and technologies involved in this process of reconstitution, taking an environmentally aware approach as it explores the developing role of value-added byproducts in the spheres of food security, waste management, and climate control. An international group of authors contributes engaging and insightful chapters on a wide selection of animal and plant byproducts, discussing the practical business of byproduct recovery within the vital contexts of shifting socio-economic concerns and the emergence of green chemistry. This important text: Covers recent developments, current research, and emerging technologies in the fields of byproduct recovery and utilization Explores potential opportunities for future research and the prospective socioeconomic benefits of green waste management Includes detailed descriptions of procedures for the transformation of the wastes into of value-added food and non-food products With its combination of practical instruction and broader commentary, **Byproducts from Agriculture and Fisheries** offers essential insight and expertise to all students and professionals working in agriculture, environmental science, food science, and any other field concerned with sustainable resources.

**Ecological Implications of Minilivestock** M G Paoletti 2005-01-07 This book provides stimulating and timely suggestions about expanding the world food supply to include a variety of minilivestock. It suggests a wide variety of small animals as nutritious food. These animals include arthropods (insects, earthworms, snails, frogs), and various rodents. The major advantage of minilivestock is that they do not have t

**Harm Reduction** Tim Rhodes 2010 *Ampia trattazione sulle possibilità terapeutiche nell'ambito della tossicodipendenza, sia da sostanze legali che illegali (eroina, cocaina, anfetamina, cannabis). Si illustra il panorama legislativo e terapeutico europeo e mondiale, così come la prospettiva etica e futura delle diverse forme di terapia. La seconda parte del volume indaga la riduzione del danno nel campo delle droghe legali (tabacco, alcol), proseguendo poi ad analizzare il rapporto fra terapia e uso ricreativo giovanile della droga. Segue un capitolo dedicato ai problemi legali e criminali nella dipendenza e nel recupero, per poi accennare alle prospettive del recupero nell'Unione Europea.*

**American Psychiatric Association Practice Guidelines** American Psychiatric Association 1996 The aim of the American Psychiatric Association Practice Guideline series is to improve patient care. Guidelines provide a comprehensive synthesis of all available information relevant to the clinical topic. Practice guidelines can be vehicles for educating psychiatrists, other medical and mental health professionals, and the general public about appropriate and inappropriate treatments. The series also will identify those areas in which critical information is lacking and in which research could be expected to improve clinical decisions. The Practice Guidelines are also designed to help those charged with overseeing the utilization and reimbursement of psychiatric services to develop more scientifically based and clinically sensitive criteria.

**Epidemiology of Obesity in Children and Adolescents** Luis A. Moreno 2011-01-12 Despite adults' best preventive efforts, childhood obesity is on the rise in most areas of the world, and with it the prevalence of Type 2 diabetes, hypertension, cardiovascular disease, and other formerly adult-onset conditions. **Epidemiology of Obesity in Children and Adolescents** takes the global ecological approach that is needed to understand the scope of the problem and its multiple causes and mechanisms, and to aid in developing more effective prevention and intervention programs. In the book's first half, experts present a descriptive summary of youth obesity trends in ten world regions, broken down by age group, gender, socioeconomic status, and risk factors.

Complementing these findings, part two reviews the evidence base regarding the variables, separately and in combination, having the most significant impact on young people's development of obesity, including: • Genetic and nutrigenomic factors. • Environmental and psychosocial factors, such as family shopping and eating habits and access to healthful foods. • Neuroendocrine regulation. • Prenatal and neonatal factors (e.g., gestational diabetes of the mother). • Dietary factors, from nutrient content to young people's food preferences. • Physical activity versus sedentary behavior. **Epidemiology of Obesity in Children and Adolescents** is necessary reading for the range of professionals involved in curtailing this epidemic, including public health specialists, epidemiologists, pediatricians, nurses, nutritionists, psychologists, health educators, and policymakers.

**Postharvest Handling** Robert L. Shewfelt 2012-12-02 **Postharvest Handling: A Systems Approach** introduces a new concept in the handling of fresh fruits and vegetable. Traditional treatments have been either physiologically based with an emphasis on biological tissue or technologically based with an emphasis on storage and handling. This book integrates all processes from production practices through consumer consumption with an emphasis on understanding market forces and providing fresh product that meets consumer expectations. Postharvest physiologists and technologists across the disciplines of agricultural economics, agricultural engineering, food science and horticulture along with handlers of minimally-processed products within the fresh produce fruit and vegetable processing industries will find this to be an invaluable source of information. Uses a systems approach that provides a unique perspective on the handling of fresh fruits and vegetables Designed with the applied perspective to complement the more basic perspectives provided in other treatments Provides the integrated, interdisciplinary perspective needed in research to improve the quality of fresh and minimally processed products Emphasizes that the design of handling systems should be market-driven rather than concentrating on narrow specifics

**Nitrite and Nitrate in Human Health and Disease** AnnMarie Kocher 2011-04-15 **Nitrite and Nitrate in Human Health and Disease** delivers a comprehensive review of nitrite and nitrate biology, from basic biochemistry to the complex physiology and metabolism of these two naturally occurring molecules in the human body. Well-organized and well referenced chapters cover the rich history of nitrite and nitrate, sources of exposure, and the physiological effects when consumed through foods containing nitrite and nitrate. The chapters are written by leading experts, all of whom share their research and perspectives in order to help define the context for benefits vs. any potential risks associated with nitrite and nitrate use, either through dietary ingestion or therapeutic dosing. This diverse collection of authors includes vascular biologists, physiologists, physicians, epidemiologists, cancer biologists, registered dietitians, chemists, and public health experts from five countries in both academia and government. **Nitrite and Nitrate in Human Health and Disease** provides a balanced view of nitric oxide biochemistry, and nitrite and nitrate biochemistry in physiology and in the food sciences.

**Guideline for Isolation Precautions in Hospitals** Julia S. Garner 1983

**Wine and Vine Components and Health** Norbert Latruffe 2019-07-26 While there is a tremendous literature on the topic of wine and health ranging back to the days of Hippocrates, it is considered that there is an unlimited variety of wine, allowing for the association of senses, nutrition, and hedonism. The history of vine and wine has lasted for at least 7000 years. Vitis represent adaptable plants, and thanks to the large variety of strains, wine is an alchemical mix with unique properties, a rich and original composition in terms of polyphenols, and well known antioxidants. This explains why wine and health are closely linked to nutrition.

**Advances in Tourism, Technology and Systems** António Abreu 2020-11-19 This book features a collection of high-quality research papers presented at the

International Conference on Tourism, Technology & Systems (ICOTTS 2020), held at the University of Cartagena, in Cartagena de Indias, Colombia, from 29th to 31st October 2020. The book is divided into two volumes, and it covers the areas of technology in tourism and the tourist experience, generations and technology in tourism, digital marketing applied to tourism and travel, mobile technologies applied to sustainable tourism, information technologies in tourism, digital transformation of tourism business, e-tourism and tourism 2.0, big data and management for travel and tourism, geotagging and tourist mobility, smart destinations, robotics in tourism, and information systems and technologies.

Reducing Racial/Ethnic Disparities in Reproductive and Perinatal Outcomes Arden Handler 2010-11-23 Among women's health concerns, reproductive issues, both prenatal and postpartum, hold particular prominence. Yet despite the many programs dedicated to improving women's reproductive health, maternal and infant morbidity and mortality rates in minority communities remain unchanged—or have increased. Confronting this alarming statistic head-on, *Reducing Racial/Ethnic Disparities in Reproductive and Perinatal Outcomes* is the first book systematically examining public health interventions designed toward meeting this important and elusive goal. Its contributors offer the best thinking and practice on this complicated topic, clarifying the relationship between evidence-based medicine and evidence-based public health and its potential for increasing parity, considering interventions in the multiple contexts of women's lives, reviewing the evidence base for each program or initiative featured, and describing methodologies for evaluating interventions. The resulting volume advocates for an integrative lifespan approach, including topics related to: Family planning STI and HIV/AIDS screening and treatment Smoking cessation and reducing exposure to environmental smoke Preconceptional well-woman care Depression screening and treatment Labor/delivery approaches and intrapartum care Emerging prenatal care interventions, from centering pregnancy to doula support For professionals and graduate students in psychiatry, psychology, sociology, women's health, and public health, *Reducing Racial/Ethnic Disparities in Reproductive and Perinatal Outcomes* reframes a set of ongoing issues and guides the reader toward state-of-the-art solutions.

Vitamin C in Health and Disease Anitra C. Carr 2018-08-09 This book is a printed edition of the Special Issue "Vitamin C in Health and Disease" that was published in *Nutrients*

Molecular Pathogenesis of Pancreatic Cancer T. M. Gress 2000 This book was written to summarize the midterm meeting of the concerted action BMH4-CT98-3085 funded by the European Union in the context of the BIOMEDII programme. The objective of this concerted action (CA) is to generate a European network allowing to share expertise, technologies and resources to speed up the process of characterization of potential new disease genes in pancreatic cancer. The meeting in Barcelona in November 1999 was hosted by the group at the IMIM led by F.X. Real, and was scheduled to allow a midterm evaluation of the individual projects.

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.

Vitamin K and Vitamin K-Dependent Proteins in Relation to Human Health Martin J. Shearer 2018-04-17 This book is a printed edition of the Special Issue "Vitamin K and Vitamin K-Dependent Proteins in Relation to Human Health" that was published in *Nutrients*

Molecular Exercise Physiology Henning Wackerhage 2014-02-24 *Molecular Exercise Physiology: An Introduction* is the first student-friendly textbook to be published on this key topic in contemporary sport and exercise science. It introduces sport and exercise genetics and the molecular mechanisms by which exercise causes adaptation. The text is linked to real life sport and exercise science situations such as 'what makes people good at distance running?', 'what DNA sequence variations code for a high muscle mass?' or 'by what mechanisms does exercise improve type2 diabetes?' The book includes a full range of useful features, such as summaries, definitions of key terms, guides to further reading, review questions, personal comments by molecular exercise pioneers (Booth, Bouchard) and leading research in the field, as well as descriptions of research methods. A companion website offers interactive and downloadable resources for both student and lecturers. Structured around central themes in sport and exercise science, such as nutrition, endurance training, resistance training, exercise & chronic disease and ageing, this book is the perfect foundation around which to build a complete upper-level undergraduate or postgraduate course on molecular exercise physiology.

Women and Smoking United States. Public Health Service. Office of the Surgeon General 2001 The second report from the U.S. Surgeon General devoted to women and smoking. Includes executive summary, chapter conclusions, full text chapters, and references.

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

Patient Safety and Quality 2008 "Nurses play a vital role in improving the safety and quality of patient care -- not only in the hospital or ambulatory treatment facility, but also of community-based care and the care performed by family members. Nurses need know what proven techniques and interventions they can use to enhance patient outcomes. To address this need, the Agency for Healthcare Research and Quality (AHRQ), with additional funding from the Robert Wood Johnson Foundation, has prepared this comprehensive, 1,400-page, handbook for nurses on patient safety and quality -- *Patient Safety and Quality: An Evidence-Based Handbook for Nurses*. (AHRQ Publication No. 08-0043)."--Online AHRQ blurb, <http://www.ahrq.gov/qual/nursesdbk>.

Nanotheranostics for Cancer Applications Prakash Rai 2018-11-12 This book is the first to focus specifically on cancer nanotheranostics. Each of the chapters that make up this comprehensive volume is authored by a researcher, clinician, or regulatory agency member known for their expertise in this field. Theranostics, the technology to simultaneously diagnose and treat a disease, is a nascent field that is growing rapidly in this era of personalized medicine. As the need for cost-effective disease diagnosis grows, drug delivery systems that can act as multifunctional carriers for imaging contrast and therapy agents could provide unique breakthroughs in oncology. Nanotechnology has enabled the development of smart theranostic platforms that can concurrently diagnose disease, start primary treatment, monitor response and initiate secondary treatments if required. In oncology, chemotherapeutics have been routinely used. Some drugs have proven effective but all carry risks of adverse side effects. There is growing interest in using remotely triggered drug delivery systems to limit cytotoxicity in the diseased area. This book reviews the use of theranostic nanoparticles for cancer applications over the past decade. First, it briefly discusses the challenges and limitations of conventional cancer treatments, and presents an overview of the use of nanotechnology in treating cancer. These introductory chapters are followed by those exploring cancer diagnosis and a myriad of delivery methods for nanotherapeutics. The book also addresses multifunctional platforms, treatment monitoring, and regulatory considerations. As a whole, the book aims to briefly summarize the development and clinical potential of various nanotheranostics for cancer applications, and to delineate the challenges that must be overcome for successful clinical development and implementation of such cancer theranostics.

Fungal Infections in Immunocompromised Hosts Dimitrios P. Kontoyiannis 2019-04-02 In this unique supplement, we have compiled several state-of-the-art topics that are based on lectures delivered by eminent mycology experts during the 37th ICHS meeting. We hope that the esteemed audience of the *Journal of Fungi* will enjoy and appreciate the ever-evolving and complex field of fungal infections in vulnerable hosts.

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

Advancing the Science of Cancer in Latinos Amelie G. Ramirez 2019-11-21 This open access book gives an overview of the sessions, panel discussions, and outcomes of the Advancing the Science of Cancer in Latinos conference, held in February 2018 in San Antonio, Texas, USA, and hosted by the Mays Cancer Center and the Institute for Health Promotion Research at UT Health San Antonio. Latinos – the largest, youngest, and fastest-growing minority

group in the United States – are expected to face a 142% rise in cancer cases in coming years. Although there has been substantial advancement in cancer prevention, screening, diagnosis, and treatment over the past few decades, addressing Latino cancer health disparities has not nearly kept pace with progress. The diverse and dynamic group of speakers and panelists brought together at the Advancing the Science of Cancer in Latinos conference provided in-depth insights as well as progress and actionable goals for Latino-focused basic science research, clinical best practices, community interventions, and what can be done by way of prevention, screening, diagnosis, and treatment of cancer in Latinos. These insights have been translated into the chapters included in this compendium; the chapters summarize the presentations and include current knowledge in the specific topic areas, identified gaps, and top priority areas for future cancer research in Latinos. Topics included among the chapters: Colorectal cancer disparities in Latinos: Genes vs. Environment Breast cancer risk and mortality in women of Latin American origin Differential cancer risk in Latinos: The role of diet Overcoming barriers for Latinos on cancer clinical trials Es tiempo: Engaging Latinas in cervical cancer research Emerging policies in U.S. health care Advancing the Science of Cancer in Latinos proves to be an indispensable resource offering key insights into actionable targets for basic science research, suggestions for clinical best practices and community interventions, and novel strategies and advocacy opportunities to reduce health disparities in Latino communities. It will find an engaged audience among researchers, academics, physicians and other healthcare professionals, patient advocates, students, and others with an interest in the broad field of Latino cancer.

Probiotics and Prebiotics in Pediatrics Yvan Vandendriessche 2019 The goal of this Special Issue, "Probiotics and Prebiotics in Pediatrics", is to focus on the importance of pediatric nutrition with probiotics and prebiotics to improve gastrointestinal health in newborn, infants, and children. Specifically, the aim is to clarify if probiotics and prebiotics can influence gut microbiota composition and host-interaction favoring human health and preventing diseases. This new information will provide health care professionals with a widespread, clear and update evidence on probiotics and prebiotics and intestinal gut microbiota in pediatric care.

Tobacco Smoke and Involuntary Smoking IARC Working Group on the Evaluation of Carcinogenic Risks to Humans 2004 The IARC Monographs series publishes authoritative independent assessments by international experts of the carcinogenic risks posed to humans by a variety of agents, mixtures and exposures. They are a resource of information for both researchers and national and international authorities. This volume is particularly significant because tobacco smoke not only causes more deaths from cancer than any other known agent; it also causes more deaths from vascular and respiratory diseases. This volume contains all the relevant information on both direct and passive smoking. It is organised by first looking at the nature of agent before collecting the evidence of cancer in humans. This is followed by carcinogenicity studies on animals and then any other data relevant to an evaluation. Genetic Algorithms in Search, Optimization, and Machine Learning David Edward Goldberg 1989 A gentle introduction to genetic algorithms. Genetic algorithms revisited: mathematical foundations. Computer implementation of a genetic algorithm. Some applications of genetic algorithms. Advanced operators and techniques in genetic search. Introduction to genetics-based machine learning. Applications of genetics-based machine learning. A look back, a glance ahead. A review of combinatorics and elementary probability. Pascal with random number generation for fortran, basic, and cobol programmers. A simple genetic algorithm (SGA) in pascal. A simple classifier system (SCS) in pascal. Partition coefficient transforms for problem-coding analysis.

Vegetarian and Plant-Based Diets in Health and Disease Prevention François Mariotti 2017-05-23 Vegetarian and Plant-Based Diets in Health and Disease Prevention examines the science of vegetarian and plant-based diets and their nutritional impact on human health. This book assembles the science related to vegetarian and plant-based diets in a comprehensive, balanced, single reference that discusses both the overall benefits of plant-based diets on health and the risk of disease and issues concerning the status in certain nutrients of the individuals, while providing overall consideration to the entire spectrum of vegetarian diets. Broken into five sections, the first provides a general overview of vegetarian / plant-based diets so that readers have a foundational understanding of the topic. Dietary choices and their relation with nutritional transition and sustainability issues are discussed. The second and third sections provide a comprehensive description of the relationship between plant-based diets and health and disease prevention. The fourth section provides a deeper look into how the relationship between plant-based diets and health and disease prevention may differ in populations with different age or physiological status. The fifth and final section of the book details the nutrients and substances whose intakes are related to the proportions of plant or animal products in the diet. Discusses the links between health and certain important characteristics of plant-based diets at the level of food groups Analyzes the relation between plant-based diet and health at the different nutritional levels, i.e. from dietary patterns to specific nutrients and substances Provides a balanced evidence-based approach to analyze the positive and negative aspects of vegetarianism Addresses the different aspects of diets predominantly based on plants, including geographical and cultural variations of vegetarianism

Textbook of Pleural Diseases Second Edition Richard W. Light 2008-04-25 This internationally renowned reference work is a fully updated and expanded second edition of the most comprehensive title available on pleural diseases. Building on the many strengths of the highly respected first edition, the book features a detailed yet lucid basic science section to support understanding of the physiological and pathophysiological mechanisms that underlie diseases of the pleura. This is followed by a wide-ranging series of clinical chapters, discussing both familiar and less common aspects of pleural diseases. Chapters in the clinical section are written in an accessible and uniform style, making extensive use of illustrative material and covering definition, incidence and epidemiology, etiology and pathogenesis, clinical presentation, investigations, treatments, possible complications and directions for future development. State-of-the-art scientific knowledge is presented at an appropriate level for the practicing clinician, and published management guidelines are included where relevant. Each chapter concludes with a summary of its 'key points', highlighting practical messages regarding patient management for the reader. Textbook of Pleural Diseases is an indispensable reference for pulmonary physicians and trainees worldwide.

Tumor Progression and Metastasis Ahmed Lasfar 2020

Perinatal Psychopharmacology Faruk Uguz 2019-01-24 This book focuses on recent advances in research and practical recommendations regarding the use of psychotropic drugs during pregnancy and lactation, two important social and psychological life events for women. In addition to the social context, including the addition of a new family member, many women experience the occurrence or recurrence of psychiatric disorders during the perinatal period. Psychiatric disorders during this period can have negative effects on the fetus, infant and other children in the family, and can result in functional impairment among mothers. The book offers a comprehensive overview of psychopharmacological treatments for nearly all specific psychiatric conditions (e.g. bipolar disorder, panic disorder, obsessive-compulsive disorder) and includes chapters on clinical approaches to treating these disorders. As such, it will appeal to a wide readership, including psychiatrists, obstetricians, gynecologists and pediatricians.

A Review of Human Carcinogens IARC Working Group on the Evaluation of Carcinogenic Risks to Humans. Conference 2012