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The Patient History: Evidence-Based Approach Mark Henderson 2012-06-13 The definitive evidence-based introduction to patient history-taking NOW IN FULL COLOR For medical students and other health professions students, an accurate differential diagnosis starts with The Patient History. The ideal companion to major textbooks on the physical examination, this trusted guide is widely acclaimed for its skill-building, and evidence based approach to the medical history. Now in full color, The Patient History defines best practices for the patient interview, explaining how to effectively elicit information from the patient in order to generate an accurate differential diagnosis. The second edition features all-new chapters, case scenarios, and a wealth of diagnostic algorithms. Introductory chapters articulate the fundamental principles of medical interviewing. The book employs a rigorous evidenced-based approach, reviewing and highlighting relevant citations from the literature throughout each chapter. Features NEW! Case scenarios introduce each chapter and place history-taking principles in clinical context NEW! Self-assessment multiple choice Q&A conclude each chapter—an ideal review for students seeking to assess their retention of chapter material NEW! Full-color presentation Essential chapter on red eye, pruritus, and hair loss Symptom-based chapters covering 59 common symptoms and clinical presentations Diagnostic approach section after each chapter featuring color algorithms and several multiple-choice questions Hundreds of practical, high-yield questions to guide the history, ranging from basic queries to those appropriate for more experienced clinicians

Minimally Invasive Surgical Oncology Ronald Matteotti 2011-06-15 Minimally Invasive Surgical Oncology is aimed at the minimal invasive surgeon as well as at the general surgeon and surgical trainee who wish to explore this field. It covers disciplines like gastroenterology, gynecology, urology, thoracic and pediatrics and builds bridges to oncologists and internal medicine. It gives a state-of-the art overview and perspectives for future developments and research as well. The book serves as an operative guide for a new generation of surgeons and offers the extraordinary feature being a text book, an operative atlas and a quick reference guide as well. The reader is provided with a tool in hand which synthesizes the latest knowledge in traditional therapies like chemotherapies and gives a comprehensive overview how to proceed in treating a cancer patient using minimal access techniques.

Pelvic Floor Dysfunction and Pelvic Surgery in the Elderly David A. Gordon 2017-05-27 This text provides a comprehensive, state of the art review of this field and will serve as a resource for urologists, colorectal surgeons, geriatricians, and gynecologists as well as researchers interested in neuromuscular phenomena in the pelvis. The book also reviews new data regarding risk factors for pelvic floor muscle dysfunction and profiles new minimally invasive surgical strategies for well known pelvic disease processes. Each chapter is chock full of data from landmark trials which have been published over the past few years and placed in context with respect to current management techniques for pelvic floor disorders. Written by experts in their field, Pelvic Floor Dysfunction and Pelvic Surgery in the Elderly: An Integrated Approach provides a concise yet comprehensive summary to help guide patient management.?

Psychology and Pathophysiological Outcomes of Eating Akikazu Takada 2021-12-01 The psychology of eating is regulated by neural mechanisms. When not well controlled, eating may result in disorders and health hazards such as obesity, type 2 diabetes mellitus, and vascular diseases. Lifestyles and cultures influence eating habits, thus there are differences in the prevalence of health problems depending upon living environments. This book examines the psychology and the pathophysiological outcomes of eating. Chapters address such topics as the influence of lifestyle, circadian rhythm, sleep, and fragrant odors on appetite and weight regulation; the impact of glucose, sucrose, lactate, and ketone bodies on the brain; the consequences of glycation stress on the skeletal muscle; and much more.

Plant Genetics and Molecular Biology Rajeev K. Varshney 2018-09-04 This book reviews the latest advances in multiple fields of plant biotechnology and the opportunities that plant genetics, genomics and molecular biology have offered for agriculture improvement. Advanced technologies can dramatically enhance our capacity in understanding the molecular basis of traits and utilizing the available resources for accelerated development of high yielding, nutritious, input-use efficient and climate-smart crop varieties. In this book, readers will discover the significant advances in plant genetics, structural and functional genomics, trait and gene discovery, transcriptomics, proteomics, metabolomics, epigenomics, nanotechnology and analytical & decision support tools in breeding. This book appeals to researchers, academics and other stakeholders of global agriculture.

IoT with Smart Systems Tomonobu Senjyu 2022 This book gathers papers addressing state-of-the-art research in all areas of information and communication technologies and their applications in intelligent computing, cloud storage, data mining and software analysis. It presents the outcomes of the Fifth International Conference on Information and Communication Technology for Intelligent Systems (ICTIS 2021), held in Ahmedabad, India. The book is divided into two volumes. It discusses the fundamentals of various data analysis techniques and algorithms, making it a valuable resource for researchers and practitioners alike.

Dietary Intake and Type 2 Diabetes Omorogieva Ojo 2019-12-05 The prevalence of diabetes is on the increase in the UK and worldwide, partly due to changes in lifestyle which predispose individuals to overweight and obesity. It is estimated that about 90% of the currently diagnosed adults have type 2 diabetes, and based on the World Health Organisation (WHO) report, about 422 million adults were living with diabetes in 2014 compared with 108 million in 1980; this condition caused about 1.5 million deaths in 2012. In the United States of America, it is estimated that about 30.3 million adults are living with diabetes, with a further 1.5 million new diabetes cases diagnosed every year, representing an increasing prevalence of this condition. Diabetes represents a major public health challenge, despite advances in technology and the pharmaceutical industry. These problems may be in the form of acute or long-term complications. Therefore, in order to attenuate the problems of diabetes, management strategies usually include lifestyle changes such as increased physical activity and dietary interventions. Studies which evaluate the role of nutrition in the management of type 2 diabetes often involve human and animal models as these approaches enable us to have a broader and more in-depth understanding of the condition. In some cases, diabetes may co-exist with other conditions, such as stroke, and these may present unique challenges with regard to nutritional interventions. This Special Issue aims to evaluate the risk factors associated with type 2 diabetes and the role of the diet in the management of people with this condition. This evidence is drawn from both human and animal studies.

From Pleasure Machines to Moral Communities Geoffrey M. Hodgson 2013 Are humans at their core seekers of their own pleasure or cooperative members of society? Paradoxically, they are both. Pleasure-seeking can take place only within the context of what works within a defined community, and central to any community are the evolved codes and principles guiding appropriate behavior, or morality. The complex interaction of morality and self-interest is at the heart of Geoffrey M. Hodgson's approach to evolutionary economics, which is designed to bring about a better understanding of human behavior. In From Pleasure Machines to Moral Communities, Hodgson casts a critical eye on neoclassical individualism, its foundations and flaws, and turns to recent insights from research on the evolutionary bases of human behavior. He focuses his attention on the evolution of morality, its meaning, why it came about, and how it influences human attitudes and behavior. This more nuanced understanding sets the stage for a fascinating investigation of its implications on a range of pressing issues drawn from diverse environments, including the business world and crucial policy realms like health care and ecology. This book provides a valuable complement to Hodgson's earlier work with Thorbjørn Knudsen on evolutionary economics in Darwin's Conjecture, extending the evolutionary outlook to include moral and policy-related issues.

Smart Intelligent Computing and Communication Technology V.D. Ambeth Kumar 2021-10-07 Recent developments in the fields of intelligent computing and communication have paved the way for the handling of current and upcoming problems and brought about significant technological advancements. This book presents the proceedings of IConIC 2021, the 4th International Conference on Intelligent Computing, held on 26 and 27 March 2021 in Chennai, India. The principle objective of the annual IConIC conference is to provide an international scientific forum where participants can exchange innovative ideas in relevant fields and interact in depth through discussion with their peer group. The theme of the 2021 conference and this book is 'Smart Intelligent Computing and Communication Technology', and the 109 papers included here focus on the technological innovations and trendsetting initiatives in medicine, industry, education and security that are improving and optimizing business and technical processes and enabling inclusive growth. The papers are grouped under 2 headings: Evolution of Computing Intelligence; and Computing and Communication, and cover a broad range of intelligent-computing research and applications. The book provides an overview of the cutting-edge developments and emerging areas of study in the technological fields of intelligent computing, and will be of interest to researchers and practitioners from both academia and industry.

Probiotics and Prebiotics in Pediatrics Yvan Vandenplas 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.

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.

Implementing Environmental and Resource Management Michael Schmidt 2011-05-13 This book represents the collected works of Environmental and Resource Management (ERM) Alumni as well as young professionals and researchers who are involved in the field of ERM. The connecting theme of these works is the successful implementation of ERM in a wide range of issues including: energy innovation and management, climate change response and sustainable development aspects of resource management in developing countries. This book aims to expose some of the research outputs of ERM Alumni and present perspectives and critical questions of ERM application. The research results can provide empirical bases on which ERM study programmes and/or working environments can be problematized in order to more effectively meet the objectives of ERM. The intended audience of this volume is wide including potential and current ERM students who want to understand how ERM is being applied; and teachers and researchers who want to understand the roles and interactions of ERM Alumni and their workplace.

Geriatric Rheumatology Yuri Nakasato 2011-06-01 The first book dedicated explicitly to the care of elderly patients with rheumatic diseases, this comprehensive resource is a practical guide for navigating the medical concerns of these complex patients. While patients over 65 years of age comprise roughly 15% of the population, they consume about 50% of rheumatology resources. This book presents current clinical practices with an eye toward achieving economically sustainable models of care. The world's leading authorities have come together to cover the full spectrum of rheumatic diseases, the immune system in aging, and ultrasound evaluation and arthrocentesis. The book also addresses the milieu of co-morbidities that the clinician may encounter with an older patient, as well as the accompanying concerns about multiple pharmacologic therapies and drug interactions. Bringing in experts from a wide array of subspecialties, the editors present the essentials of multidisciplinary care, an approach which is the hallmark of geriatrics and which naturally translates into the field of gerontorheumatology. Designed for primary care physicians and rheumatology consultants, *Geriatric Rheumatology* is an invaluable guide to caring for this rapidly growing patient population.

Nutrition During Pregnancy and Lactation Leanne M. Redman 2020-01-03 Pregnancy is viewed as a window to future health. With the birth of the developmental origins of human adult disease hypothesis, research and clinical practice has turned its attention to the influence of maternal factors such as health and lifestyle surrounding pregnancy as a means to understand and prevent the inter-generational inheritance of chronic disease susceptibility. Outcomes during pregnancy have long-lasting impacts on both women and children. Moreover, nutrition early in life can influence growth and the establishment of lifelong eating habits and behaviors. This Special Issue on "Nutrition during Pregnancy and Lactation: Implications for Maternal and Infant Health" is intended to highlight new epidemiological, mechanistic and interventional studies that investigate maternal nutrition around the pregnancy period on maternal and infant outcomes. Submissions may include original research, narrative reviews, and systematic reviews and meta-analyses.

Hypertension and Heart Failure Maria Dorobantu 2019-03-30 This book explains how hypertension affects 20-50% of the adult population in developed countries. Heart failure is the result of the hypertension's effects on the heart and it represents a growing public health problem. In this context the international scientific community is continuously struggling to develop better strategies in screening, diagnosing and treating hypertension and its deleterious effects. Thus, this field is continuously changing, with new important information being added constantly. This volume will offer both insights into the intimate mechanisms of transition from hypertension to heart failure and clinical practice advice on the prevention and treatment of heart failure in hypertensive population. The mechanisms which explain the progression from hypertension to heart failure will be also covered exhaustively by offering two chapters referring to the diagnosis of heart failure in hypertensive population and one regarding echocardiography which is the most frequently used imaging method in clinical practice. The reader will be also provided with information on cardiovascular magnetic resonance which has the unique advantage of differentiating hypertensive heart failure from other pathologies associated with increased myocardial thickness. This book is a useful tool for clinicians but also to the research community interested in heart failure and consequences of hypertension on heart who want to be up-to-date with the new developments in the field.

Managing in Recovering Markets S. Chatterjee 2014-10-27 The changing dynamics of business worldwide have led organizations to look beyond traditional managerial practices while at the same time attempting to retain their core competitive advantages. This development has called upon academicians and practitioners alike to reassess the different aspects of business management such as macroeconomic variables, the nature of the market, the changing features of the workplace, the new work ethos, and/or employer-employee exchanges. In this context, the book provides essential insights on industry innovations, academic advances and policy movements with regard to recovering markets in India and around the globe. The individual papers highlight potential avenues that could allow industry to better understand and respond to the global crisis. The book collects research papers presented at the Global Conference on Managing in Recovering Markets (GCMRM), held in March 2014. Seven international and 120 national business schools and management universities were represented at the conference, the first in a series of 13 planned under the GCMRM agenda for 2014–17. The book includes more than 30 research papers chosen from a pool of 118 presented at the conference, all of which have undergone a rigorous blind review process.

Google Earth Engine Applications Lalit Kumar 2019-04-23 In a rapidly changing world, there is an ever-increasing need to monitor the Earth's resources and manage it sustainably for future generations. Earth observation from satellites is critical to provide information required for informed and timely decision making in this regard. Satellite-based earth observation has advanced rapidly over the last 50 years, and there is a plethora of satellite sensors imaging the Earth at finer spatial and spectral resolutions as well as high temporal resolutions. The amount of data available for any single location on the Earth is now at the petabyte-scale. An ever-increasing capacity and computing power is needed to handle such large datasets. The Google Earth Engine (GEE) is a cloud-based computing platform that was established by Google to support such data processing. This facility allows for the storage, processing and analysis of spatial data using centralized high-power computing resources, allowing scientists, researchers, hobbyists and anyone else interested in such fields to mine this data and understand the changes occurring on the Earth's surface. This book presents research that applies the Google Earth Engine in mining, storing, retrieving and processing spatial data for a variety of applications that include vegetation monitoring, cropland mapping, ecosystem assessment, and gross primary productivity, among others. Datasets used range from coarse spatial resolution data, such as MODIS, to medium resolution datasets (Worldview -2), and the studies cover the entire globe at varying spatial and temporal scales.

Pelvic Organ Dysfunction in Neurological Disease Clare J. Fowler 2010-11-04 *Pelvic Organ Dysfunction in Neurological Disease* describes the neurological control of human bladder, bowel and sexual function and then details the dysfunctions which may arise as a consequence of various neurological diseases. Easy to read, the book will be of value to any healthcare professional managing patients in whom pelvic organ functions have been compromised by neurological disease. The book provides a structured approach to present day understanding of the neurological control of pelvic organs and the investigation and management of each type of organ dysfunction. A unique feature of this book is that it addresses the impact of specific neurological disorders on all three functions. The authors have all been associated with the Department of Uro-Neurology at the National Hospital for Neurology and Neurosurgery, London since it was established 20 years ago. This book is a timely review of their accumulated knowledge and the latest literature.

Collaboration Across Boundaries for Social-Ecological Systems Science Stephen G. Perz 2019-03-30 Collaboration across boundaries is widely recognized as a vital requisite for the advancement of innovative science to address problems such as environmental degradation and global change. This book takes collaboration across boundaries seriously by focusing on the many challenges and practices involved in team science when spanning disciplinary, organizational, national and other divides. The authors draw on a shared framework for managing the challenges of collaboration across boundaries as applied to the science of understanding complex social-ecological systems. Teams working across boundaries on diverse social-ecological systems in countries around the world report their challenges and share their practices, outcomes and lessons learned. From these diverse experiences arise many commonalities and also some important differences. These provide the basis for a set of recommendations to any collaborators intending to use science as a tool to better understand social-ecological systems and to improve their management and governance.

Computer Information Systems and Industrial Management Khalid Saeed 2013-09-20 This book constitutes the proceedings of the 12th IFIP TC 8 International Conference, CISIM 2013, held in Cracow, Poland, in September 2013. The 44 papers presented in this volume were carefully reviewed and selected from over 60 submissions. They are organized in topical sections on biometric and biomedical applications; pattern recognition and image processing; various aspects of computer security, networking, algorithms, and industrial applications. The book also contains full papers of a keynote speech and the invited talk.

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.

Blood Pressure Monitoring in Cardiovascular Medicine and Therapeutics William B. White 2000-11-01 *Blood Pressure Monitoring in Cardiovascular Medicine and Therapeutics* provides information that will be especially useful to all who care for hypertensive patients. The various chapters provide a full account of the mounting scientific evidence that blood pressure recordings need to be obtained for proper diagnosis, prognosis, and therapy for these patients. The contributors are each directly involved in clinical studies offhome and ambulatory blood pressure monitoring, as well as of the relationship of circadian variations in heart rate and blood pressure to cardiovascular events. As a longtime observer of the multiple facets of clinical hypertension, I have been greatly impressed with the rapid advances in this area over the last two decades. Out-of-office blood pressure monitoring has grown from a curiosity to a necessity. In order to improve the currently inadequate control of hypertension throughout the world, such monitoring should become routine in the diagnosis and treatment of every patient. The evidence for the role of out-of-office monitoring that is so well described in *Blood Pressure Monitoring in Cardiovascular Medicine and Therapeutics* should serve as a stimulus for the more widespread adoption of the procedure. Once this is understood, the constraints on the broader clinical use of ambulatory monitoring that now exist in the United States will be lifted as the value of such information becomes more generally

recognized. In the meantime, self-recorded home measurements should be more widely utilized.

Pediatric Liver Tumors Arthur Zimmermann 2011-01-18 The field of liver tumors in children has seen tremendous therapeutic advances over recent years. This has been achieved through a much better understanding of the biology of disease, improved diagnostic procedures, refined methods of pretreatment tumor staging, the implementation of highly efficient chemotherapy and surgery, detailed monitoring of toxicity, and careful follow-up strategies. International controlled trials have played a key role in these advances, and many leading figures in the trials are among the editors and authors of this book. Their principal goal in *Hepatic Tumors in Children* is to provide the reader with a complete update on this complex and rapidly evolving field. All aspects of an impressive success story are covered, disclosing how the outcome of a previously devastating disease has been so dramatically improved. This book will prove essential reading for all who are involved in the care of children with liver tumors.

Applications of Networks, Sensors and Autonomous Systems Analytics Jyotsna Kumar Mandal 2021-11-27 This book presents high-quality research papers presented at International Conference on Applications of Networks, Sensors and Autonomous Systems Analytics (ICANSAA 2020), held during December, 11 – 12, 2020, at JIS College of Engineering, Kalyani, West Bengal, India. The major topics covered are cyber-physical systems and sensor networks, data analytics and autonomous systems and MEMS and NEMS with applications in biomedical devices. It includes novel and innovative work from experts, practitioners, scientists, and decision-makers from academia and industry.

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.

Home Blood Pressure Monitoring George S. Stergiou 2019-10-31 Hypertension remains a leading cause of disability and death worldwide. Self-monitoring of blood pressure by patients at home is currently recommended as a valuable tool for the diagnosis and management of hypertension. Unfortunately, in clinical practice, home blood pressure monitoring is often inadequately implemented, mostly due to the use of inaccurate devices and inappropriate methodologies. Thus, the potential of the method to improve the management of hypertension and cardiovascular disease prevention has not yet been exhausted. This volume presents the available evidence on home blood pressure monitoring, discusses its strengths and limitations, and presents strategies for its optimal implementation in clinical practice. Written by distinguished international experts, it offers a complete source of information and guide for practitioners and researchers dealing with the management of hypertension.

Cytokines and Pain L.R. Watkins 2013-03-08 Within the past few years, it has become recognized that the immune system communicates to the brain. Substances released from activated immune cells (cytokines) stimulate peripheral nerves, thereby signaling the brain and spinal cord that infection/inflammation has occurred. Additionally, peripheral infection/inflammation leads to de novo synthesis and release of cytokines within the brain and spinal cord. Thus, cytokines effect neural activation both peripherally and centrally. Through this communication pathway, cytokines such as interleukin-1, interleukin-6 and tumor necrosis factor markedly alter brain function, physiology and behavior. One important but underrecognized aspect of this communication is the dramatic impact that immune activation has on pain modulation. The purpose of this book is to examine, for the first time, immune-to-brain communication from the viewpoint of its effect on pain processing. It is aimed both at the basic scientist and health care providers, in order to clarify the major role that substances released by immune cells play in pain modulation. This book contains chapters contributed by all of the major laboratories focused on understanding how cytokines modulate pain. These chapters provide a unique vantage point from which to examine this question, as the summarized work ranges from evolutionary approaches across diverse species, to the basics of the immune response, to the effect of cytokines on peripheral and central nervous system sites, to therapeutic potential in humans.

Handbook of Natural Language Processing Nitin Indurkha 2010-02-22 The Handbook of Natural Language Processing, Second Edition presents practical tools and techniques for implementing natural language processing in computer systems. Along with removing outdated material, this edition updates every chapter and expands the content to include emerging areas, such as sentiment analysis. New to the Second Edition Greater

Temporomandibular Disorders Enriqueta C. Bond 2020 Temporomandibular disorders (TMDs), are a set of more than 30 health disorders associated with both the temporomandibular joints and the muscles and tissues of the jaw. TMDs have a range of causes and often co-occur with a number of overlapping medical conditions, including headaches, fibromyalgia, back pain and irritable bowel syndrome. TMDs can be transient or long-lasting and may be associated with problems that range from an occasional click of the jaw to severe chronic pain involving the entire orofacial region. Everyday activities, including eating and talking, are often difficult for people with TMDs, and many of them suffer with severe chronic pain due to this condition. Common social activities that most people take for granted, such as smiling, laughing, and kissing, can become unbearable. This dysfunction and pain, and its associated suffering, take a terrible toll on affected individuals, their families, and their friends. Individuals with TMDs often feel stigmatized and invalidated in their experiences by their family, friends, and, often, the health care community. Misjudgments and a failure to understand the nature and depths of TMDs can have severe consequences -- more pain and more suffering -- for individuals, their families and our society. *Temporomandibular Disorders: Priorities for Research and Care* calls on a number of stakeholders -- across medicine, dentistry, and other fields -- to improve the health and well-being of individuals with a TMD. This report addresses the current state of knowledge regarding TMD research, education and training, safety and efficacy of clinical treatments of TMDs, and burden and costs associated with TMDs. The recommendations of *Temporomandibular Disorders* focus on the actions that many organizations and agencies should take to improve TMD research and care and improve the overall health and well-being of individuals with a TMD.

Perinatal Pathology E. Grundmann 2012-12-06

Eular Compendium on Rheumatic Diseases Johannes W.J. Bijlsma 2009 The compendium on Rheumatic Diseases found its origin in the successful EULAR on-line course on rheumatic diseases. The yearly updated reviews of the fifty modules of that course form the content of this book. Each chapter is written by two dedicated expert rheumatologists from two different countries, to get a balanced view. Most of them were assisted by a junior doctor or researcher from their own department, in order to stimulate focus on modern educational goals and techniques. The fifty chapters, encompassing the whole spectrum of rheumatology, brought together in a textbook, are a vital part of rheumatologists' continuing medical education, keeping doctors up to date in daily practice. The structure of the chapters in the Compendium is the same as the one of the modules in the on-line course: starting with learning points, text with many figures, tables and pictures, a summary, and a limited number of key references.

Malignant Mesothelioma Harvey I. Pass 2006-08-01 Malignant Mesothelioma brings together the most current diagnostic criteria and treatment plans from the world's leading experts on this rare but devastating cancer. The first edition was a critical and commercial success and this revision builds on that reputation. The editors have brought together the world's leading experts to fully explore the latest scientific breakthroughs in carcinogenesis, immunotherapy, potential vaccination strategies, and gene therapy. The clinical aspects of the book are equally strong, with thorough discussion of epidemiology, etiology, different clinical presentations, imaging (including interventional pulmonology), treatment of benign disease, strategies for multimodality treatment of malignant disease. Editors: Harvey I. Pass, M.D, Chief, Thoracic Surgery, New York University, New York, NY; Nicholas Vogelzang, M.D, Director, Nevada Cancer Institute, Las Vegas, NV; University of Chicago, Michele Carbone, M.D., Ph.D, Researcher and Director, Thoracic Oncology Program, Cancer Research Center of Hawaii, Honolulu, HI; and Anne S. Tsao, M.D, Department of Thoracic/Head & Neck Medical Oncology, The University of Texas M. D. Anderson Cancer Center, Houston, TX.

Cerebrospinal Fluid (CSF) Proteomics Enrique Santamaria 2020-09-04 This volume focuses on protein analysis, including a wide range of the use of mass spectrometry and other protein methods within neurobiological disciplines. Chapters cover topics such as cerebrospinal fluid (CSF) processing and biobanking; label-free quantitative proteomics; SWATH; top-down proteomics; and experimental strategies based on other -omics applied to CSF metabolome, lipidome, and microRNAome. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Cutting-edge and thorough, *Cerebrospinal Fluid (CSF) Proteomics: Methods and Protocols* is a valuable resource for graduate students and post-doctoral fellows interested in learning more about CSF proteotyping. It is also useful to established researchers seeking further insight into this growing field.

Innovative Pest Management Approaches for the 21st Century Akshay Kumar Chakravarthy 2020-03-20 Several Integrated Pest Management (IPM) approaches are available for managing pests of varied kinds, including individual and integrated methods for pest suppression. Recently the focus has shifted to pest management tools that act on insect systems selectively, are compatible with the environment, and are not harmful for ecosystems. Other approaches target specific biochemical and physiological aspects of insect metabolism, and involve biotechnological and genetic manipulation. Still other approaches include the use of nanotechnology, endophytes, optical and sonic manipulation to detect and control pest insects. Unfortunately, conventional forms of pest management do not focus on technology transfer to the ground level workers and farmers. As a result, farmers are incurring huge losses of crops and revenues. This book highlights the importance of using communication tools in pest management and demonstrates some success stories of utilizing automated unmanned technologies in this context. The content is divided into three sections, the first of which, "Pest Population Monitoring: Modern Tools," covers long and short-range pest population monitoring techniques and tools such as satellites, unmanned aerial vehicles/drones, remote sensing, digital tools like GIS, GPS for mapping, lidar, mobile apps, software systems, artificial diet designs and functional diversity of info-chemicals. The second section of the book is devoted to "Emerging Areas in Pest Management" and offers a glimpse of diversified tactics that have been developed to contain and suppress pest populations such as endophytes, insect vectors of phytoplasma, Hymenoptera parasitoids, mass production and utilization of NPV etc. In turn, the third section focuses on "Integrated Pest Management" and presents farming situations that illustrate how research in diversified aspects has helped to find solutions to specific pest problems, and how some new and evolving tactics can be practically implemented. Given its scope, the book offers a valuable asset for entomology and plant pathology researchers, students of zoology and plant protection, and readers whose work involves agriculture, horticulture, forestry and other ecosystems.

Innovations and Interdisciplinary Solutions for Underserved Areas Jessica P. R. Thorn 2020-08-05 This book constitutes the refereed post-conference proceedings of the 4th EAI International Conference on Innovations and Interdisciplinary Solutions for Underserved Areas, InterSol 2020, held in Nairobi, Kenya, in March 2020. Due to the COVID-19 pandemic the conference is postponed to a later date in 2020. The 20 papers presented were selected from 50 submissions and issue different problems in underserved and unserved areas. They face problems in almost all sectors such as energy, water, communication, climate, food, education, transportation, social development, and economic growth.

Theoretical Foundations of Health Education and Health Promotion Manoj Sharma 2012 "Introduces students to common theories from behavioral and social sciences that are currently being used in health education and promotion. Each discussion of theory is accompanied by a practical skill-building activity in the context of planning and evaluation and a set of application questions that will assist the student in mastering the application of the theory."--

Geospatial Applications for Climate Adaptation Planning Diana Mitsova 2018-12-07 Climate adaptation is a timely yet complex topic that does not fit squarely into any one disciplinary realm. *Geospatial Applications for Climate Adaptation Planning* presents an overview of the range of strategies, tools, and techniques that must be used to assess myriad overlapping vulnerabilities and to formulate appropriate climate-relevant solutions at multiple scales and in varying contexts. Organized into four sections, the book includes 15 chapters. Each chapter is grounded in the literature and presents case studies designed by the authors, as well as many examples from a diverse international group of scholars and entities in the public and private sectors. Areas covered include:

Climate Change and Climate Adaptation Planning: Context and Concepts Geospatial Technologies: Fundamentals and Terminology GIS and Climate Vulnerability Assessments Technical Approaches to Formulating Mitigation and Adaptation Strategies Geospatial Applications for Climate Adaptation Planning is aimed at advanced students, researchers, and entities in the public and private sectors. It also provides supplementary reading for courses in planning, public administration, policy studies, and disaster management.

Ewing's Analytical Instrumentation Handbook, Fourth Edition Nelu Grinberg 2019-02-21 This handbook is a guide for workers in analytical chemistry who need a starting place for information about a specific instrumental technique. It gives a basic introduction to the techniques and provides leading references on the theory and methodology for an instrumental technique. This edition thoroughly expands and updates the chapters to include concepts, applications, and key references from recent literature. It also contains a new chapter on process analytical technology.

Biotechnology for Biofuels: A Sustainable Green Energy Solution Nitish Kumar 2020-05-16 The depletion of petroleum-derived fuel and environmental concerns have prompted many millennials to consider biofuels as alternative fuel sources. But completely replacing petroleum-derived fuels with biofuels is currently impossible in terms of production capacity and engine compatibility. Nevertheless, the marginal replacement of diesel with biofuel could delay the depletion of petroleum resources and abate the radical climate change caused by automotive pollutants. Energy security and climate change are the two major driving forces for worldwide biofuel development, and also have the potential to stimulate the agro-industry. The development of biofuels as alternative and renewable sources of energy has become critical in national efforts towards maximum self-reliance, the cornerstone of our energy security strategy. At the same time, the production of biofuels from various types of biomass such as plants, microbes, algae and fungi is now an ecologically viable and sustainable option. This book describes the biotechnological advances in biofuel production from various sources, while also providing essential information on the genetic improvement of biofuel sources at both the conventional and genomic level. These innovations and the corresponding methodologies are explained in detail.

Evolution of Extracellular Matrix Fred W. Keeley 2013-03-15 The evolution of single cells into multicellular organisms was mediated, in large part, by the extracellular matrix. The proteins and glycoconjugates that make up the extracellular matrix provide structural support to cellular complexes, facilitate cell adhesion and migration, and impart mechanical properties that are important for tissue function. Each class of ECM macromolecule has evolved to incorporate distinctive properties that are defined by conserved modules that are mixed together to achieve appropriate function. This volume provides a comprehensive analysis of how the major ECM components evolved over time in order to fill their specific roles found in modern organisms. The major focus is on the structural matrix proteins, matricellular proteins, and more complex ECM structures such as basement membranes. Adhesive proteins and their receptors are also discussed.