Hemodialysis (HD) represents the first successful long-term substitutive therapy with an artificial organ for severe failure of a vital organ. Because HD was started many decades ago, a book on HD may not appear to be up-to-date. Indeed, HD covers many basic and clinical aspects and this book reflects the rapid expansion of new and controversial aspects either in the biotechnological or the clinical field. This book renews new technologies and therapeutic options to improve dialysis treatment of uremic patients. This book consists of three parts: modeling, methods and technique, prognosis and complications.

Despite numerous recent studies and exciting discoveries in the field, only limited treatment is available today for the victims of acute neurological injuries. Animal Models of Acute Neurological Injuries provides a standardized methodology manual designed to eliminate the inconsistent preparations and variability that currently jeopardizes advances in the field. Contributed by top experts and many original developers of the models, each chapter contains a step-by-step, proven procedure and visual aids covering the most commonly used animal models of neurological injury in order to highlight the practical applications of animal models rather than the theoretical issues. This intensive volume presents its readily reproducible protocols with great clarity and consistency to best aid neuroscientists and neurobiologists in laboratory testing and experimentation. Comprehensive and cutting-edge, Animal Models of Acute Neurological Injuries is an ideal guide for scientists and researchers who wish to pursue this vital course of study with the proficiency and precision that the field requires.

In the past, 'traditional' moderate-intensity continuous training (60-75% peak heart rate) was the type of physical activity most frequently recommended for both athletes and clinical populations (cf. American College of Sports Medicine guidelines). However, growing evidence indicates that high-intensity interval training (80-100% peak heart rate) could actually be associated with larger cardiorespiratory fitness and metabolic function benefits and, thereby, physical performance gains for athletes. Similarly, recent data in obese and hypertensive individuals indicate that various mechanisms – further improvement in endothelial function, reductions in sympathetic neural activity, or in arterial stiffness – might be involved in the larger cardiovascular protective effects associated with training at high exercise intensities. Concerning hypoxic training, similar trends have been observed from 'traditional' prolonged altitude sojourns ('Live High Train High' or 'Live High Train Low'), which result in increased hemoglobin mass and blood carrying capacity. Recent innovative 'Live Low Train High' methods ('Resistence Training in Hypoxia' or 'Repeated Sprint Training in Hypoxia') have resulted in peripheral adaptations, such as hypertrophy or delay in muscle fatigue. Other interventions including peripheral hypoxia, such as vascular occlusion during endurance/resistance training or remote ischemic preconditioning (i.e., succession of ischemia/reperfusion episodes), have been proposed as methods for improving subsequent exercise performance or attitude tolerance (e.g., reduced severity of acute-mountain sickness symptoms). Postulated mechanisms behind these metabolic, neuro-humoral, hemodynamics, and systemic adaptations include stimulation of nitric oxide synthase, increase in anti-oxidant enzymes, and down-regulation of pro-inflammatory cytokines, although the amount of evidence is not yet significant enough. Improved O2 delivery/utilization conferred by hypoxic training interventions might also be effective in preventing and treating cardiovascular diseases, as well as contributing to improve exercise tolerance and health status of patients. For example, in obese subjects, combining exercise with hypoxic exposure enhances the negative energy balance, which further reduces weight and improves cardio-metabolic health. In hypertensive patients, the larger lowering of blood pressure through the endothelial nitric oxide synthase pathway and the associated compensatory vasodilation is taken to reflect the superiority of exercising in hypoxia compared to normoxia. A hypoxic stimulus, in addition to exercise at high vs. moderate intensity, has the potential to further ameliorate various aspects of the vascular function, as observed in healthy populations. This may have clinical implications for the reduction of cardiovascular risks. Key open questions are therefore of interest for patients suffering from chronic vascular or cellular hypoxia (e.g., work-rest or ischemia/reperfusion intermittent pattern; exercise intensity; hypoxic severity and exposure duration; type of hypoxia (normobaric vs. hypobaric); health risks; magnitude and maintenance of the benefits). Outside any potential beneficial effects of exercising in...
O2-deprived environments, there may also be long-term adverse consequences of chronic intermittent severe hypoxia. Sleep apnea syndrome, for instance, leads to oxidative stress and the production of reactive oxygen species, and ultimately systemic inflammation. Postulated pathophysiological changes associated with intermittent hypoxic exposure include alteration in baroreflex activity, increase in pulmonary arterial pressure and hematocrit, changes in heart structure and function, and an alteration in endothelial-dependent vasodilation in cerebral and muscular arteries. There is need to explore the combination of exercising in hypoxia and association of hypertension, developmental defects, neuro-pathological and neuro-cognitive deficits, enhanced susceptibility to oxidative injury, and possibly increased myocardial and cerebral infarction in individuals sensitive to hypoxic stress. The aim of this Research Topic is to shed more light on the transcriptional, vascular, hemodynamics, neuro-humoral, and systemic consequences of training at high intensities under various hypoxic conditions.

"If you have ever been confused by traditional acid-base teaching and want a deeper and practical understanding of the subject, this is the book for you! You will be rewarded." -- Acid-Baee balance is pivotal in medicine and the biosciences. Almost 30 years ago, Peter A. Stewart introduced his approach to acid-base which has now become the method of choice. This textbook incorporates his original publication, complemented by over 20 new chapters. These discuss recent developments in acid-base medicine using the same clear and concise style. There is extensive focus on practical clinical application of the Stewart approach. Highly recommended for everyone that seeks to understand, apply or practice acid-base medicine and physiology. This includes consultants, fellows and residents in critical care medicine, anesthesiology, internal medicine, emergency medicine and surgery; physicians in other branches of medicine; physiologists; veterinarians; bioscientists; and medical students.

Chronic Obstructive Pulmonary Disease (COPD) represents an important public health challenge and is a major cause of chronic morbidity and mortality throughout the world. COPD is currently the fourth leading cause of death in the world, but is projected to be the third leading cause of death by 2020. More than 3 million people died of COPD in 2012 accounting for 6% of all deaths globally. Globally, the COPD burden is projected to increase in coming decades because of continued exposure to COPD risk factors and aging of the population.2 This Pocket Guide has been developed from the Global Strategy for the Diagnosis, Management, and Prevention of COPD (2018 Report), which aims to provide a non-biased review of the current evidence for the assessment, diagnosis and treatment of patients with COPD that can aid the clinician. Discussions of COPD and COPD management, evidence levels, and specific citations from the scientific literature are included in that source document, which is available from www.goldcopd.org. The tables and figures in this Pocket Guide follow the numbering of the 2018 Global Strategy Report for reference consistency.

When elite ultrarunners have a need for speed, they turn to coach Jason Koop. Now the sport’s leading coach makes his highly effective ultramarathon training methods available to ultrarunners of all abilities in his book Training Essentials for Ultrarunning. Ultrarunners have traditionally piled on the miles or tried an approach that worked for a friend. Yet ultramarathons are not just longer marathons; simply running more will not prepare you for the race experience you want. Ultramarathon requires a new and specific approach to training. Training Essentials for Ultrarunning will revolutionize training for those who want to race an ultramarathon instead of just getting it out to the finish line. Koop’s race-proven ultramarathon program is based on sound science, the most current research, and years of experience coaching the sport’s star runners to podium performances. Packed with practical advice and vetted training methods, Training Essentials for Ultrarunning is the new, must-have resource for first-timers and ultramarathon veterans. Runners using Training Essentials for Ultrarunning will gain much more than Koop’s race-proven ultramarathon approach: The science behind ultramarathon performance. Common ultramarathon failure points and how to solve them. How to use interval training to focus workouts, make gains, reduce injuries, and race faster. Simple, effective fueling and hydration strategies. Koop’s A.D.A.P.T. method for making the right decisions to solve a race-day crisis. How to plan your ultra season for better racing. Course-by-course coaching guides to iconic U.S. ultramarathons including American River 50, Badwater 135, Hardrock 100, Javelina 100, JFK 50, Lake Sonoma 50, Leadville 100, Vermont 100, Wasatch 100, and Western States 100. How to achieve your goal, whether it’s finishing or winning. A revolution is coming to ultrarunning as ultramarathoners shed old habits and embrace the smarter methods that science and experience show are better. Featuring stories and advice from ultrarunning stars Dakota Jones, Kaci Hickox, Dylan Bowman, Timothy Olson, and others who work with Koop, Training Essentials for Ultrarunning is the go-to guide for first-time ultrarunners and competitive ultramarathoners.

This book reviews all aspects of boron research in recent years and is based on the Third International Symposium on all Aspects of Plant and Animal Boron Nutrition. This includes B sorption mechanisms in soils, deficiency and toxicity of B, B fertilizer application and basic research on the physiology and molecular biology of plant B nutrition, and nutritional function of B in animals and humans.

This volume provides current methods to analyze the properties of designer receptors exclusively activated by designer drugs (DREADDs) in vitro and to measure the biological responses of DREADD activation in different neuronal populations in vivo. Chapters focus on the utility of DREADD technology to selectively stimulate or inhibit neuronal activity in selected brain areas of transgenic mice. In addition, the successful use of DREADD expression in rats and Drosophila is described. Together, the DREADD technology represents a non-invasive, chemical-genetic tool for investigating neuronal signaling and the resulting
behavioural responses in vivo. Written in the popular Neuromethods series style, chapters include the kind of detail and key advice from the specialists needed to get successful results in your own laboratory. Concise and easy-to-use, Designer Receptors Exclusively Activated by Designer Drugs aims to ensure successful results in the further study of this vital field.

Volumes are organized topically and provide a comprehensive discussion of developments in the respective field over the past 3-5 years. The series also discusses new discoveries and applications. Special volumes are dedicated to selected topics which focus on new biotechnological products and new processes for their synthesis and purification. In general, special volumes are edited by well-known guest editors. The series editor and publisher will however always be pleased to receive suggestions and supplementary information. Manuscripts are accepted in English.

In the absence of substitutes, the use of blood components remains essential in therapy. This guide contains a compendium of measures designed to ensure the safety, efficacy and quality of blood components and is particularly intended for all those working in blood transfusion services. In accordance with the approach recommended by the Council of Europe in this field, it is based on the premise of voluntary, non-remunerated blood donation. It describes the different blood components and gives information on their clinical indications and possible side effects.

Established for over 40 years as the bible of the medical ward, this work is now updated with even more of the current information practitioners need, delivered in a time-saving, quick-reference style. This spiral-bound edition has a two-color design, color tabs for sections, and additional algorithms for diagnosis and treatment.

This study examines the condition known as parkinsonism of early onset with diurnal fluctuation (PEDF). It aims to clarify the differences between PEDF and early-onset Parkinson disease, then to compare PEDF with HPD (hereditary progressive dystonia with marked diurnal fluctuation).

MEMs Materials and Processes Handbook is a comprehensive reference for researchers searching for new materials, properties of known materials, or specific processes available for MEMS fabrication. The content is separated into distinct sections on "Materials" and "Processes". The extensive Material Selection Guide and a "Material Database" guides the reader through the selection of appropriate materials for the required task at hand. The "Processes" section of the book is organized as a catalog of various microfabrication processes, each with a brief introduction to the technology, as well as examples of common uses in MEMs.

This new book helps adapt nursing care to the HIV/AIDS patient. The clinical pathophysiology of the disease, including immunopathogenesis, aerologic testing, the clinical course of the disease, classification system, and nursing research are presented for a comprehensive focus. It defines skills, interventions, and care needed for the HIV/AIDS patient, regardless of the setting. Nursing management covers health promotion and maintenance, acute interventions, and chronic/home management to prepare clinicians for appropriate interventions at any stage of illness. Clinical guidelines, increased patient education, and management of pharmacological reactions and complications are integrated throughout. Presents information on recently approved HIV drugs and HIV testing to provide up-to-date information. Features pediatric inserts to highlight the unique needs and treatment of the pediatric patient. Incorporates special medication boxes and care boxes to make important information easily accessible. Organizes chapters across the care setting to help the clinician fully individualize the nursing care of the HIV/AIDS client. Provides a user-friendly resource to facilitate study for the ACRN examination. Lists "Common questions asked by patients" and the answers at the end of each chapter to enable the clinician to address the issues and concerns of the patient. Provides information on complementary therapies used in the treatment of HIV to enable the clinician to offer their patients a complete spectrum of care. Includes a color drug guide to provide the currently approved antiretrovirals.

This is the most comprehensive, up-to-date and one-volume guide to protocols in the immunology lab available anywhere. Carefully edited by two of the leading clinical and laboratory immunologists in the world, with concise chapters by 69 experts in their respective subspecialties, this book serves as both a useful reference and a practical manual of laboratory protocols. Published under the auspices of the American Medical Laboratory Immunologists, Clinical Diagnosis Immunology is designed to be useful in the day-to-day work of all medical laboratory professionals. It is an indispensable new tool for the modern medical lab, destined to become the standard reference/text in the field.

This volume is the first comprehensive clinical practice reference in the rapidly growing field of point-of-care testing. Written by the experts and innovators in point-of-care testing technologies and procedures, the book provides practical guidance in planning and implementing the most reliable, clinically useful, and cost-effective point-of-care procedures and systems. The opening section discusses the goals of point-of-care testing and thoroughly explains the basic principles and methods. A major portion of the book
examine applications in a variety of clinical settings, and includes case studies that demonstrate the benefits, limitations, and cost-effectiveness of point-of-care testing. Concluding sections focus on management, performance, information systems, and economic outcomes. A technical appendix is included. A Brandon-Hill recommended title.

Comprehensive and detailed coverage of STD and AIDS. Effect of STDs on health of individual and community. Atlas and clinical approach chapters

The Indian National Academy of Engineering (INAE), founded in 1987, comprises India's most distinguished engineers, engineer-scientists and technologists covering the entire spectrum of engineering disciplines. INAE functions as an apex body and promotes the practice of engineering & technology and the related sciences for their application to solving problems of national importance. INAE launched a Distinguished Visiting Professorship (DVP) Scheme jointly with All India Council for Technical Education (AICTE) in 1999. The Scheme envisages promotion of industry-institute interaction by facilitating the dissemination of knowledge through the expertise of experienced and knowledgeable persons from industry to integrate their rich industrial experience with technical education. CURRENT TRENDS IN ENGINEERING PRACTICE Volume III is a compilation of papers based on the lectures delivered by industry experts in engineering colleges under the AICTE-INAE Distinguished Visiting Professorship scheme. It deals with recent developments and practices adopted in various projects in different engineering disciplines and specializations - Advanced Finite Element Structural Analysis, Structural Engineering: Concrete Technology; LEAN Construction; Nanotechnology; Product Lifecycle and Visualization Tools; Diffuoridation of Water; Multisensor Radio Communication Techniques; Space Links; Satellite Communication Services and Applications; Science, Technology and Applications of Superalloys; Titanium Hardware for Strategic Sectors; Application of APQP, a QS-9000 Tool for Quality Improvement; Hot Dip Galvanizing; Corrosion Problems in Chemical Process Industries and Role of Engineer's in India's Development.

This book comprises the contributions of the international workshop Boron 2001, which was aimed at gathering all relevant information on recent developments in boron research in soils, plants, animals and men over the past years. Review articles and original contributions deal with both applied and basic aspects in this area, comprising topics such as methods for B determination, the physiological functions of boron in plant and animal metabolism, including use of 10B for diagnostic purposes and cancer treatment. Genetic and molecular aspects of boron efficiency and tolerance to toxic levels in plants and the early physiological reactions to boron deprivation are further important topics of this volume. The role of boron for reproductive development is dealt with in further contributions. Furthermore, improved methods for the diagnosis of the available boron status in soils, plants, appropriate timing and leaf fertilizer application are addressed. Special emphasis is given in the contributions to highlight the most recent developments in the aforementioned areas.

Essentials of Neuroanesthesia offers useful insights on the anesthetic management of neurosurgical and neurologic patients. This book covers all topics related to neuroanesthesia, providing essential knowledge on the brain and spinal cord. Sections include chapters on anatomy, physiology, and pharmacology, along with specific chapters related to various neurosurgical and neurological problems and their anesthetic management. This book provides an understanding of related issues, such as palliative care, evidence-based practice of neuroanesthesia, sterilization techniques, biostatistics, and ethical issues, and is useful for trainees, clinicians, and researchers in the fields of neurosurgery, neurocritical care, neuroanesthesia, and neurology. Offers useful insights on the anesthetic management of neurosurgical and neurologic patients. Discusses related issues, such as palliative care, evidence-based practice of neuroanesthesia, sterilization techniques, biostatistics, and ethical issues. Useful for trainees, clinicians, and researchers in the fields of neurosurgery, neurocritical care, neuroanesthesia, and neurology.

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This best selling manual has been fully revised and updated with the latest information. New chapters include neurological genetic disease testing and counselling; adjunctive therapies; and nutrition. This edition will also feature a DVD-ROM with video clips.

This book provides researchers with widely used techniques for the study of virology, focusing on molecular biology and imaging to encourage mechanistic investigation of virus-host interactions. Chapters detail a broad range of methods from diagnosis, virus propagation, proteomics, haploid screening, lentiviral screening, virus entry, single molecule RNA imaging, correlative light and electron microscopy (CLEM), EM, light-sheet microscopy, biochemistry, viral transcription, physiological infection models, animal models, in vivo imaging, antigenic evolution, immunology to mathematical modeling. Reviews cover general influenza, clinical trials, both sides of the gain-of-function debate, and computational modeling. 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, Influenza Virus: Methods and Protocols aims to motivate experienced researchers and newcomers in the field and improve our overall understanding of influenza.

All animals and plants form associations with hundreds or thousands of different beneficial microorganisms. These symbiotic microbes play an important role in the development, adaptation, health and evolution of their hosts. This book brings together a group of diverse biologists to discuss microbial interactions with multicellular life forms including insects, corals, plants, and mammals, including humans. The various mechanisms by which microorganisms benefit their hosts are discussed, including
providing essential nutrients, preventing disease, inducing the immune system, and combating stress. Since the microbiota can be transferred from parent to offspring, it plays an important role in the origin and evolution of animal and plant species. This book should be of interest to the widest range of biological scientists, merging the studies of host and microbial physiology, symbiosis, and the ecology and evolution of symbiotic partners.

A full description of the clinical aspect and pathology of the disease, with a discussion of current treatment. This updated edition includes five new chapters: endocrine brucellosis, difficulties in diagnosis and management, HIV and brucellosis, bioterrorism and brucellosis, and spondylitis with neurobrucellosis. The book presents a complete, up-to-date picture of the disorder and will appeal to clinicians, students, researchers and also to veterinarians.

This book gathers the proceedings of the 30th Scientific-Experts Conference of Agriculture and Food Industry, held on September 26-27, 2019, in Sarajevo, Bosnia and Herzegovina. It reports on the application of innovative technologies in food sciences and agriculture, and covers research in plant and animal production, agricultural economics and food production. Further, the book discusses key social and environmental issues, and proposes answers to current challenges. The conference was jointly organized by the Faculty of Agriculture and Food Sciences of the University of Sarajevo, Bosnia and Herzegovina, the Faculty of Agriculture of Ege University, Turkey, the Bosnia and Herzegovina Medical and Biological Engineering Society, and the Faculty of Agriculture of the University of Belgrade, Serbia. The proceedings offer a timely snapshot of cutting-edge, multidisciplinary research and developments in modern agriculture. As such, they address the needs of researchers and professionals, agricultural companies, food producers, and regulatory and food safety agencies.

Sport Nutrition, Third Edition, uses a physiological basis to provide an in-depth look at the science supporting nutrition recommendations. Students will come away with an understanding of nutrition as it relates to sport and the influence of nutrition on performance, training, and recovery.

Commercial Biosensors and Their Applications: Clinical, Food, and Beyond offers professionals an in-depth look at some of the most significant applications of commercially available biosensor-based instrumentation in the clinical, food quality control, bioprocess monitoring, and biothreat fields. Featuring contributions by an international team of scientists, this book provides readers with an unparalleled opportunity to see how their colleagues around the world are using these powerful tools. This book is an indispensable addition to the reference libraries of biosensor technologists, analytical chemists, clinical chemists, biochemists, physicians, medical doctors, engineers, and clinical biochemists. The book discusses the need for portable, rapid, and smart biosensing devices and their use as cost-effective, in situ, real-time analytical tools in a variety of fields. Devotes several chapters to applications of biosensors to clinical samples, exploring how biosensors are currently used for in-home diabetes monitoring, point-of-care diagnostics, non-invasive sensing, and biomedical research. Includes a section on food applications covering how biosensors can detect genetically modified organisms, toxins, allergens, hormones, microorganisms, species specificity, pesticides, insecticides, and related components. Discusses nanobiosensor and applications, including a chapter on nanotechnological approaches and materials in commercial biosensors.

Scientists answer seventy-five questions pertaining to the natural world, ranging from whether earthquakes are predictable to why whales sing. Each question features an accompanying illustration.

From scream queens to femme fatales, horror isn’t just for the boys. Gothic media moguls Meg Hafdahl and Kelly Florence, authors of The Science of Monsters, and co-hosts of the Horror Rewind podcast called “the best horror film podcast out there” by Film Daddy, present a guide to the feminist horror movies, TV shows, and characters we all know and love. Through interviews, film analysis, and bone-chilling discoveries, The Science of Women in Horror uncovers the theories behind women’s most iconic roles of the genre. Explore age-old tropes such as “The Innocent” like Lydia in Beetlejuice, “The Gorgon” like Pamela Voorhees in Friday the 13th, and “The Mother” like Norma Bates in Psycho and Bates Motel, and delve deeper into female-forward film and TV including The Haunting of Hill House Teeth Chilling Adventures of Sabrina Buffy the Vampire Slayer And so much more! Join Kelly and Meg in The Science of Women in Horror as they flip the script and prove that every girl is a “final girl.”

"Low-level laser therapy (or photobiomodulation therapy) is a rapidly growing approach to treating a wide range of diseases and disorders that afflict humanity. This Tutorial Text covers the basic molecular and cellular mechanisms of action, applications for treating diseases in animal models, and its use in clinical trials and therapeutic practice in patients. Other topics include the two basic chromophores and how they trigger the signaling pathways, activation of transcription factors, and mobilization of stem cells; how the light-source design and the relevant energy parameters can affect the outcome of therapy; and the physics and tissue-optics principles that concern LLLT.”

In recent years, human studies have made enormous contributions towards an understanding of the genetic basis of diabetes...
mellitus; however, most of the experimentation needed for the invention and testing of novel therapeutic approaches cannot be performed in humans. Thus, there is no alternative to appropriate animal models. In Animal Models in Diabetes Research, expert researchers explore the current status of the most important models and procedures in order to provide a timely resource in experimental diabetology. The first half of the volume serves as a comprehensive overview on our current knowledge of the pathogenesis and pathophysiology of diabetes in animal models through a series of reviews in model strains. The book then continues with vital, established protocols that are employed in the characterization and study of animal models of diabetes. As a volume in the highly successful Methods in Molecular Biology™ series, this work contains the type of detailed description and key implementation advice necessary to achieve successful results. Authoritative and cutting-edge, Animal Models in Diabetes Research delivers essential content that will be an important resource to advance diabetes research in the years to come.

Stay up-to-date on the latest advances and current issues in equine medicine with this handy reference for the busy equine practitioner, large animal veterinarian, or student. This edition of Current Therapy in Equine Medicine brings you thorough coverage and expert advice on selected topics in areas that have seen significant advances in the last 5 years. Content emphasizes the practical aspects of diagnosis and treatment and provides details for therapeutic regimens. Arranged primarily by body system, the text also features sections on infectious diseases, foal diseases, nutrition, and toxicology. With this cutting-edge information all in one reliable source, you'll increase your awareness of key therapies in less time. Focuses on the latest therapy for equine diseases, emphasizing detailed discussions and the most reliable and current information. Organized approach to important problems brings you up-to-date, practical information organized by organ system. Concise, easy-to-read format saves you time; most articles provide essential information in 2 to 5 pages. Renowned group of contributors share their expertise on the timely topics you need to know about. Photos enhance information. Line drawings illustrate important concepts. NEW! Emerging topics include issues such as disinfection in equine hospitals; complimentary modalities to traditional medicine; chemotherapy for oncological diseases; and protecting yourself with medical records. Each section has NEW topics including medical management of critically ill foals in the field; oral cavity masses; radiology of sinuses and teeth; biochemical tests for myocardial injury; protozoal myeloencephalitis update; management of bladder uroliths; skin grafting; managing the high-risk pregnancy; shock wave therapy; and more!

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