

Belgian Journal Of Hematology Ariez

The definitive Oxford Textbook of Palliative Medicine, now in its fifth edition, has again been thoroughly updated to offer a truly global perspective in this field of extraordinary talent and thoughtfulness. Updated to include new sections devoted to assessment tools, care of patients with cancer, and the management of issues in the very young and the very old, this leading textbook covers all the new and emerging topics since its original publication in 1993. In addition, the multi-disciplinary nature of palliative care is emphasized throughout the book, covering areas from ethical and communication issues, the treatment of symptoms and the management of pain. The printed book is complemented with 12 months free access to the online version, which includes expanded chapter information and links from the references to primary research journal articles, ensuring this edition continues to be at the forefront of palliative medicine. This fifth edition of the Oxford Textbook of Palliative Medicine is dedicated to the memory of Professor Geoffrey Hanks, pioneer in the field of palliative medicine, and co-editor of the previous four editions. A truly comprehensive text, no hospital, hospice, palliative care service, or medical library should be without this essential source of information.

Elephants are possibly the most well-known members of the animal kingdom. The enormous size, unusual anatomy, and longevity of elephants have fascinated humans for millennia. Biology, Medicine, and Surgery of Elephants serves as a comprehensive text on elephant medicine and surgery. Based on the expertise of 36 scientists and clinical veterinarians, this volume covers biology, husbandry, veterinary medicine and surgery of the elephant as known today. Written by the foremost experts in the field, Comprehensively covers both Asian and African elephants Complete with taxonomy, behavioral, geographical and systemic information Well-illustrated and organized for easy reference

Life course epidemiology considers how adult health is affected by a variety of factors and influences over the entire life-course. This book provides the reader with the knowledge and skills to design, analyse, and correctly interpret family-based studies, which are increasingly being used to explore life course epidemiology.

This book describes the approach to anesthetic and perioperative management in different categories of high-risk patient scheduled to undergo elective noncardiac surgery. Individual sections focus on patients with conditions entailing cardiac and hemodynamic risks, respiratory risks, renal and metabolic risks, neurological risks, and other forms of risk. For each condition, up-to-date guidance is provided on risk evaluation, risk stratification, and intraoperative and postoperative anesthetic management. This is the first time that such different clinical situations have been gathered together in a single textbook of anesthesiology. All of the authors are international experts with extensive clinical experience. The aim is to provide trainee anesthesiologists with clear guidance that will prove invaluable when managing a wide range of patients with serious illnesses or conditions that pose a significant anesthetic risk. The book will also serve as a valuable reference for more experienced anesthesiologists and intensivists.

Business Model Generation

Finding What Works in Health Care

The Art of Weight Loss Across the Borders

Sketches from a Life Before Nature

International Medical Graduate Physicians

Clinical Data Management

Issues in Nursing by Specialty / 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about School Nursing. The editors have built Issues in Nursing by Specialty: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about School Nursing in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Nursing by Specialty / 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

The definitive reference on the anthropology of death and dying, expanded with new contributions covering everything from animal mourning to mortuary cannibalism Few subjects stir the imagination more than the study of how people across cultures deal with death and dying. This expanded second edition of the internationally bestselling Death, Mourning, and Burial offers cross-cultural readings that span the period from dying to afterlife, considering approaches to this transition as a social process and exploring the great variations of cultural responses to death. Exploring new content including organ transplantation, institutionalized care for the dying, HIV-AIDs, animal mourning, and biotechnology, this text retains classic readings from the first edition, and is enhanced by sixteen new articles and two new sections which provide increased breadth and depth for readers. Death, Mourning, and Burial, Second Edition is divided into eight parts reflecting the social trajectory of death: conceptualizations of death; death, dying, and care; grief and mourning; mortuary rituals; and remembrance and regeneration. Sections are introduced through foundational texts which provide the ideal introduction to this diverse field. It is essential reading for anyone concerned with issues of death and dying, as well as violence, terrorism, war, state terror, organ theft, and mortuary rituals. A thoroughly revised edition of this classic anthology featuring twenty-three new articles, two new sections, and three reformulated sections Updated to include current topics, including organ transplantation, institutionalized care for the dying, HIV-AIDs, animal mourning, and biotechnology Must reading for anyone concerned with issues of death and dying, as well as violence, terrorism, war, state terror, organ theft, and mortuary rituals Serves as a text for anthropology classes and provides a genuinely cross-cultural perspective to all those studying death and dying

Social change has placed new demands on the practice of medicine, altering almost every aspect of patient care relationships. Just as medicine was encouraged to embrace the biological sciences some 100 years ago, recent directives indicate the importance of the social sciences in understanding biomedical practice. Humanistic challenges call for changes in curative and technological imperatives. In this book, social scientists contribute to such challenges by using social evidence to indicate appropriate new goals for health care in a changing environment. This book was designed to stimulate and challenge all those concerned with the human interactions that constitute medical practice. To encompass a wide range of topics, the authors include researchers; practicing physicians from the specialties of family, general, geriatric, pediatric, and oncological medicine; social and behavioral scientists; and public health representatives. Cutting across disciplinary boundaries, they explore the ethical, economic, and social aspects of patient care. These essays draw on past studies of the patient-doctor relationship and generate new and important questions. They address social behavior in patient care as a way to approach theoretical issues pertinent to the social and medical sciences. The authors also use social variables to study patient care and suggest new areas of sociomedical inquiry and new approaches to medical practice, education, and research. Its cross-disciplinary approach and jargon-free writing make this book an important and accessible tool for physician, scholar, and student.

Desmoid Tumors (DT), also called Aggressive Fibromatoses, are a rare fibroblastic proliferative disease, with an incidence of 2 to 4 new cases per million people per year. Despite the absence of a metastatic potential, DT cause significant morbidity and at times mortality due to its locally invasive behaviour. The anatomical locations can be abdominal, extra-abdominal (often in the extremities) and intra-abdominal. This book is the first manuscript dedicated entirely to Desmoid Tumors. Written by prominent clinicians, researchers and advocacy group experts, patients and professionals alike will find this to be a comprehensive review. Clinical presentation, imaging guidelines and treatment paradigms are highlighted. Both the sporadic and hereditary forms (Familial Adenomatous Polyposis) will be discussed. A thorough discussion on the unique issues in children with DT is included. A portion of the book will address the role of the APC gene, the β-catenin protein and the role of mutations in the genesis of DT. Emerging cutting edge research techniques will be revealed. Also included is a thoughtful discussion on the controversial labelling of Desmoid Tumors as benign and the consequences of such a designation. The role of advocacy groups in supporting research and in promoting awareness of rare diseases such as DT will be outlined. This book will serve as basis to prepare clinicians, researchers and patients to embark on the quest for a cure for Desmoid Tumors.

Principles of Animal Nutrition

Annual Report; 1947

Animal Parasites

Bioinformatics and Drug Discovery

Veterans and Agent Orange

Biology, Medicine, and Surgery of Elephants

This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

This book describes the multiple aspects of (i) preparation of the magnetic core, (ii) the stabilization with different coatings, (iii) the physico-chemical characterization and (iv) the vectorization to obtain specific nanosystems. Several bio-applications are also presented in this book. In the early days of Magnetic Resonance Imaging (MRI), paramagnetic ions were proposed as contrast agents to enhance the diagnostic quality of MR images. Since then, academic and industrial efforts have been devoted to the development of new and more efficient molecular, supramolecular and nanoparticulate systems. Old concepts and theories, like paramagnetic relaxation, were revisited and exploited, leading to new scientific tracks. With their high relaxivity payload, the superparamagnetic nanoparticles are very appealing in the context of molecular imaging but challenges are still numerous: absence of toxicity, specificity, ability to cross the biological barriers, etc.

Vascular surgery has experienced remarkable growth and diversification in the last decade, especially with its embracing the disruptive endovascular technological revolution. Vascular surgeons remain the only group of specialists capable of total treatment of patients with vascular disease, providing medical, minimally invasive, and surgical therapy. Although vascular surgeons practice in all areas of the world, practice patterns in different areas naturally have both similarities and differences that reflect both regional patterns of disease, genetic characteristics of local peoples, cultural preferences for treatment, local political and economic situations, different access to resources and devices, as well as different training paradigms. Thus, the practice of vascular surgery has diversified and evolved in parallel in many areas, converging and diverging in many ways. Vascular Surgery: A Global Perspective provides the first review and comparison of the diversity of vascular surgery practice around the world. The book is grouped according to common vascular diseases such as aneurysmal and occlusive arterial disease, as well as venous and lymphatic disease and dialysis access. Each major disease topic includes multiple chapters written by expert specialists from around the world, each discussing their local approach to the disease and its treatment. Similarly, the status of vascular surgery practice is addressed, including discussion of the influence of payment systems on practice, patient access to the internet for information, training paradigms, and the legal system including malpractice. This textbook provides the first worldwide summary of the care of patients with vascular disease and will be of interest to a wide audience including vascular surgeons, vascular medical specialists, cardiologists, radiologists, internists, and family practice physicians.

PLATELETS is the definitive current source of state-of-the-art knowledge about platelets and covers the entire field of platelet biology, pathophysiology, and clinical medicine. Recently there has been a rapid expansion of knowledge in both basic biology and the clinical approach to platelet-related diseases including thrombosis and hemorrhage. Novel platelet function tests, drugs, blood bank storage methods, and gene therapies have been incorporated into patient care or are in development. This book draws all this information into a single, comprehensive and authoritative resource. · First edition won Best Book in Medical Science Award from the Association of American Publishers · Contains fourteen new chapters on topics such as platelet genomics and proteomics, inhibition of platelet function by the endothelium, clinical tests of platelet function, real time in vivo imaging of platelets, and inherited thrombocytopenias · A comprehensive full color reference comprising over 70 chapters, 1400 pages, and 16,000 references

The Politics of Science and the Fate of America's Children

Machine Medical Ethics

The Brown Boveri Review

Breast Cancer Management and Molecular Medicine

Death, Mourning, and Burial

Under the Auspices of EBMT

Many thousands of international graduate physicians from diverse medical specialties serve the health care needs of the United States, and one-in-four psychiatry residents are international medical graduates. International Medical Graduate Physicians: A Guide to Training was created by prominent leaders in academic psychiatry to support the success of these international medical graduate physicians as they complete their clinical training and enter the physician workforce in this country. This insightful title has been developed as a valuable resource, filled with key information and personal narratives, to foster optimal wellbeing and decisionmaking of IMG physicians as they navigate their careers. The text is thorough in scope and replete with perspectives and reflections, and tailored guidance for the reader. Many of the chapters are based on the direct and diverse life experiences of the authors. A unique and thoughtful contribution to the literature, this Guide will be of great value to international physicians and to their teachers and supervisors in psychiatry as well as other specialties of medicine.

Multiple myeloma is currently still an incurable disease, but during the past decade knowledge of its molecular pathogenesis has increased rapidly. This has led to remarkable progress in both diagnosis and therapy, including in particular the approval of novel and first-in-class drugs such as thalidomide, bortezomib, and lenalidomide. This book, written by internationally acknowledged experts, covers a wide range of topics relating to multiple myeloma, including history, epidemiology, pathophysiology, clinical features, staging, and prognostic systems. The principal focus, however, is on therapy, with detailed information on the various promising treatment options which give hope that this cancer will be transformed into a chronic disease or even become curable. Individualized therapy and the variety of supportive treatment options, as described in this volume, will help in achieving this goal, as well as in reducing adverse events and improving quality of life.

The eminent biochemist reflects on his life and work in Vienna and in America, shedding light on his DNA research and the work and opinions that led to his reputation as a maverick

Tailoring treatment for individual breast cancers is no longer a dream and is now the main goal for current research. This book gives an overview of the most recent techniques, agents and approaches for breast cancer and the individualization of treatment Particular attention is given to organ-specific tailored approaches, specific populations, patients' preferences and rehabilitation. Contributions from experts focus on the biomedical research behind the transfer of molecular biology knowledge into the clinical management of patients. This has led to increased survival as well as improved quality of life. The book gives an overview of the latest achievements in breast cancer and their use in clinical practice.

MRI Contrast Agents

Lead Wars

Pharmaceutical Biotechnology

From Molecules to Particles

A Cross-Cultural Reader

A Guide to Training

Recent advances in drug discovery have been rapid. The second edition of Bioinformatics and Drug Discovery has been completely updated to include topics that range from new technologies in target identification, genomic analysis, cheminformatics, protein analysis, and network or pathway analysis. Each chapter provides an extended introduction that describes the theory and application of the technology. In the second part of each chapter, detailed procedures related to the use of these technologies and software have been incorporated. Written in the highly successful Methods in Molecular Biology series format, the chapters include the kind of detailed description and implementation advice that is crucial for getting optimal results in the laboratory. Thorough and intuitive, Bioinformatics and Drug Discovery, Second Edition seeks to aid scientists in the further study of the rapidly expanding field of drug discovery.

The essays in this book, written by researchers from both humanities and science, describe various theoretical and experimental approaches to adding medical ethics to a machine, what design features are necessary in order to achieve this, philosophical and practical questions concerning justice, rights, decision-making and responsibility in medical contexts, and accurately modeling essential physician-machine-patient relationships. In medical settings, machines are in close proximity with human beings: with patients who are in vulnerable states of health, who have disabilities of various kinds, with the very young or very old and with medical professionals. Machines in these contexts are undertaking important medical tasks that require emotional sensitivity, knowledge of medical codes, human dignity and privacy. As machine technology advances, ethical concerns become more urgent: should medical machines be programmed to follow a code of medical ethics? What theory or theories should constrain medical machine conduct? What design features are required? Should machines share responsibility with humans for the ethical consequences of medical actions? How ought clinical relationships involving machines to be modeled? Is a capacity for empathy and emotion detection necessary? What about consciousness? This collection is the first book that addresses these 21st-century concerns.

Finding What Works in Health CareStandards for Systematic ReviewsNational Academies Press

Healthcare decision makers in search of reliable information that compares health interventions increasingly turn to systematic reviews for the best summary of the evidence. Systematic reviews identify, select, assess, and synthesize the findings of similar but separate studies, and can help clarify what is known and not known about the potential benefits and harms of drugs, devices, and other healthcare services. Systematic reviews can be helpful for clinicians who want to integrate research findings into their daily practices, for patients to make well-informed choices about their own care, for professional medical societies and other organizations that develop clinical practice guidelines. Too often systematic reviews are of uncertain or poor quality. There are no universally accepted standards for developing systematic reviews leading to variability in how conflicts of interest and biases are handled, how evidence is appraised, and the overall scientific rigor of the process. In Finding What Works in Health Care the Institute of Medicine (IOM) recommends 21 standards for developing high-quality systematic reviews of comparative effectiveness research. The standards address the entire systematic review process from the initial steps of formulating the topic and building the review team to producing a detailed final report that synthesizes what the evidence shows and where knowledge gaps remain. Finding What Works in Health Care also proposes a framework for improving the quality of the science underpinning systematic reviews. This book will serve as a vital resource for both sponsors and producers of systematic reviews of comparative effectiveness research.

The CommonKADS Methodology

Recombinant Erythropoietin

Diagnosis, Treatment, Prevention

Multiple Myeloma

Optimizing Brain Exposure of CNS Drugs and Minimizing Brain Side Effects for Peripheral Drugs

Facilitating Interdisciplinary Research examines current interdisciplinary research efforts and recommends ways to stimulate and support such research. Advances in science and engineering increasingly require the collaboration of scholars from various fields. This shift is driven by the need to address complex problems that cut across traditional disciplines, and the capacity of new technologies to both transform existing disciplines and generate new ones. At the same time, however, interdisciplinary research can be impeded by policies on hiring, promotion, tenure, proposal review, and resource allocation that favor traditional disciplines. This report identifies steps that researchers, teachers, students, institutions, funding organizations, and disciplinary societies can take to more effectively conduct, facilitate, and evaluate interdisciplinary research programs and projects. Throughout the report key concepts are illustrated with case studies and results of the committee's surveys of individual researchers and university provosts.

Extensively revised and updated, with the addition of new chapters and authors, this long-awaited second edition covers all aspects of clinical data management. Giving details of the efficient clinical data management procedures required to satisfy both corporate objectives and quality audits by regulatory authorities, this text is timely and an important contribution to the literature. The volume: * is written by well-known and experienced authors in this area * provides new approaches to major topics in clinical data management * contains new chapters on systems software validation, database design and performance measures. It will be invaluable to anyone in the field within the pharmaceutical industry, and to all biomedical professionals working in clinical research.

This book is open access under a CC BY 4.0 license. This textbook, endorsed by the European Society for Blood and Marrow Transplantation (EBMT), provides adult and paediatric nurses with a full and informative guide covering all aspects of transplant nursing, from basic principles to advanced concepts. It takes the reader on a journey through the history of transplant nursing, including essential and progressive elements to help nurses improve their knowledge and benefit the patient experience, as well as a comprehensive introduction to research and auditing methods. This new volume specifically intended for nurses, complements the ESH-EBMT reference title, a popular educational resource originally developed in 2003 for physicians to accompany an annual training course also serving as an educational tool in its own right. This title is designed to develop the knowledge of nurses in transplantation. It is the first book of its kind specifically targeted at nurses in this specialist field and acknowledges the valuable contribution that nursing makes in this area. This volume presents information that is essential for the education of nurses new to transplantation, while also offering a valuable resource for more experienced nurses who wish to update their knowledge.

Now published in its Second Edition, the Textbook of Clinical Trials offers detailed coverage of trial methodology in diverse areas of medicine in a single comprehensive volume. Praise for the First Edition: "... very useful as an introduction to clinical research, or for those planning specific studies within therapeutic or disease areas." BRITISH JOURNAL OF SURGERY, Vol. 92, No. 2, February 2005 The book 's main concept is to describe the impact of clinical trials on the practice of medicine. It separates the information by therapeutic area because the impact of clinical trials, the problems encountered, and the numbers of trials in existence vary tremendously from specialty to specialty. The sections provide a background to the disease area and general clinical trial methodology before concentrating on particular problems experienced in that area. Specific examples are used throughout to address these issues. The Textbook of Clinical Trials, Second Edition: Highlights the various ways clinical trials have influenced the practice of medicine in many therapeutic areas Describes the challenges posed by those conducting clinical trials over a range of medical specialties and allied fields Additional therapeutic areas are included in this Second Edition to fill gaps in the First Edition as the number and complexity of trials increases in this rapidly developing area Newly covered or updated in the Second Edition: general surgery, plastic surgery, aesthetic surgery, palliative care, primary care, anaesthesia and pain, transfusion, wound healing, maternal and perinatal health, early termination, organ transplants, ophthalmology, epilepsy, infectious disease, neuro-oncology, adrenal, thyroid and urological cancers, as well as a chapter on the Cochrane network An invaluable resource for pharmaceutical companies, the Textbook of Clinical Trials, Second Edition appeals to those working in contract research organizations, medical departments and in the area of public health and health science alike.

Bioactive Compounds from Plants

Blood-Brain Barrier in Drug Discovery

A Global Perspective

The European Blood and Marrow Transplantation Textbook for Nurses

Palliative Care and Ethics

Strategic Management

Hospice is the premiere end of life program in the United States, but its requirement that patients forgo disease-directed therapies and that they have a prognosis of 6 months or less means that it serves less than half of dying patients and often for very short periods of time. Palliative care offers careful attention to pain and symptom management, added support for patients and families, and assistance with difficult medical decision making alongside any and all desired medical treatments, but it does not include a comprehensive system of care as is provided by hospice. The practice of palliative care and hospice is filled with sometimes overt (requests for hastened death in an environment where such acts are legally prohibited) and other times covert (the delay in palliative care referral because the health care team believes it will undermine disease directed treatment) ethical issues. The contributors to this volume use a series of case presentations within each chapter to illustrate some of the palliative care and hospice challenges with significant ethical dimensions across the three overarching domains: 1) care delivery systems; 2) addressing the many dimensions of suffering; and 3) difficult decisions near the end of life. The contributors are among the most experienced palliative care, hospice and ethics scholars in North America and Western Europe. Each has been given relatively free reign to address what they feel are the most pressing ethical challenges within their domain, so a wide range of positions and vantage points are represented. As a result, the volume provides a very diverse ethical exploration of this relatively young field that can deepen, stretch, and at times confront any simple notion of the challenges facing patients, their families, professional caregivers, and policy makers.

Useful throughout history for their medical as well as other benefits, plant-derived compounds have gained particular importance recently, due to environmental factors. The isolation and characterization of plant products, the identification of their role in the plant, and ways of synthesizing identical compounds or more potent analogues are covered. Also includes methods of culturing plant tissues and genetic engineering as a means of increasing the yield of desired substances from plants. Special emphasis is placed on plants previously unknown to Western scientists.

In this incisive examination of lead poisoning during the past half century, Gerald Markowitz and David Rosner focus on one of the most contentious and bitter battles in the history of public health. Lead Wars details how the nature of the epidemic has changed and highlights the dilemmas public health agencies face today in terms of prevention strategies and chronic illness linked to low levels of toxic exposure. The authors use the opinion by Maryland's Court of Appeals—which considered whether researchers at Johns Hopkins University's prestigious Kennedy Krieger Institute (KKI) engaged in unethical research on 108 African-American children—as a springboard to ask fundamental questions about the practice and future of public health. Lead Wars chronicles the obstacles faced by public health workers in the conservative, pro-business, anti-regulatory climate that took off in the Reagan years and that stymied efforts to eliminate lead from the environments and the bodies of American children.

For undergraduate and graduate courses in strategy. In today's economy, gaining and sustaining a competitive advantage is harder than ever. Strategic Management captures the complexity of the current business environment and delivers the latest skills and concepts with unrivaled clarity, helping students develop their own cutting-edge strategy through skill-developing exercises. The Fifteenth Edition has been thoroughly updated and revised with current research and concepts. This edition includes 29 new cases and end-of-chapter material, including added exercises and review questions. MyManagementLab for Strategic Management is a total learning package. MyManagementLab is an online homework, tutorial, and assessment program that truly engages students in learning. It helps students better prepare for class, quizzes, and exams—resulting in better performance in the course—and provides educators a dynamic set of tools for gauging individual and class progress.

Acta Meteorologica Sinica

Anesthesia in High-Risk Patients

Issues in Nursing by Specialty: 2013 Edition

Oxford Textbook of Palliative Medicine

Update 11 (2018)

Concepts and Applications

The book covers in an integrated fashion the complete route from corporate knowledge management, through knowledge analysis and engineering, to the design and implementation of knowledge-intensive information systems. The disciplines of knowledge engineering and knowledge management are closely tied. Knowledge engineering deals with the development of information systems in which knowledge and reasoning play pivotal roles. Knowledge management, a newly developed field at the intersection of computer science and management, deals with knowledge as a key resource in modern organizations. Managing knowledge within an organization is inconceivable without the use of advanced information systems; the design and implementation of such systems pose great organization as well as technical challenges. The book covers in an integrated fashion the complete route from corporate knowledge management, through knowledge analysis and engineering, to the design and implementation of knowledge-intensive information systems. The CommonKADS methodology, developed over the last decade by an industry-university consortium led by the authors, is used throughout the book. CommonKADS makes as much use as possible of the new UML notation standard. Beyond information systems applications, all software engineering and computer systems projects in which knowledge plays an important role stand to benefit from the CommonKADS methodology.

Focused on central nervous system (CNS) drug discovery efforts, this book educates drug researchers about the blood-brain barrier (BBB) so they can affect important improvements in one of the most significant – and most challenging – areas of drug discovery. • Written by world experts to provide practical solutions to increase brain penetration or minimize CNS side-effects • Reviews state-of-the-art in silico, in vitro, and in vivo tools to assess brain penetration and advanced CNS drug delivery strategies • Covers BBB physiology, medicinal chemistry design principles, free drug hypothesis for the BBB, and transport mechanisms including passive diffusion, uptake/efflux transporters, and receptor-mediated processes • Highlights the advances in modelling BBB pharmacokinetics and dynamics relationships (PK/PD) and physiologically-based pharmacokinetics (PBPK) • Discusses case studies of successful CNS and non-CNS drugs, lessons learned and paths to the market

Animals are biological transformers of dietary matter and energy to produce high-quality foods and wools for human consumption and use. Mammals, birds, fish, and shrimp require nutrients to survive, grow, develop, and reproduce. As an interesting, dynamic, and challenging discipline in biological sciences, animal nutrition spans an immense range from chemistry, biochemistry, anatomy and physiology to reproduction, immunology, pathology, and cell biology. Thus, nutrition is a foundational subject in livestock, poultry and fish production, as well as the rearing and health of companion animals. This book entitled Principles of Animal Nutrition consists of 13 chapters. Recent advances in biochemistry, physiology and anatomy provide the foundation to understand how nutrients are utilized by ruminants and non-ruminants. The text begins with an overview of the physiological and biochemical bases of animal nutrition, followed by a detailed description of chemical properties of carbohydrates, lipids, protein, and amino acids. It advances to the coverage of the digestion, absorption, transport, and metabolism of macronutrients, energy, vitamins, and minerals in animals. To integrate the basic knowledge of nutrition with practical animal feeding, the book continues with discussion on nutritional requirements of animals for maintenance and production, as well as the regulation of food intake by animals. Finally, the book closes with feed additives, including those used to enhance animal growth and survival, improve feed efficiency for protein production, and replace feed antibiotics. While the classical and modern concepts of animal nutrition are emphasized throughout the book, every effort has been made to include the most recent progress in this ever-expanding field, so that readers in various biological disciplines can integrate biochemistry and physiology with nutrition, health, and disease in mammals, birds, and other animal species (e.g., fish and shrimp). All chapters clearly provide the essential literature related to the principles of animal nutrition, which should be useful for academic researchers, practitioners, beginners, and government policy makers. This book is an excellent reference for professionals and a comprehensive textbook for senior undergraduate and graduate students in animal science, biochemistry, biomedicine, biology, food science, nutrition, veterinary medicine, and related fields.

Pharmaceutical Biotechnology offers students taking Pharmacy and related Medical and Pharmaceutical courses a comprehensive introduction to the fast-moving area of biopharmaceuticals. With a particular focus on the subject taken from a pharmaceutical perspective, initial chapters offer a broad introduction to protein science and recombinant DNA technology- key areas that underpin the whole subject. Subsequent chapters focus upon the development, production and analysis of these substances. Finally the book moves on to explore the science, biotechnology and medical applications of specific biotech products categories. These include not only protein-based substances but also nucleic acid and cell-based products. introduces essential principles underlining modern biotechnology- recombinant DNA technology and protein science an invaluable introduction to this fast-moving subject aimed specifically at pharmacy and medical students includes specific 'product category chapters' focusing on the pharmaceutical, medical and therapeutic properties of numerous biopharmaceutical products. entire chapter devoted to the principles of genetic engineering and how these drugs are developed.

includes numerous relevant case studies to enhance student understanding no prior knowledge of protein structure is assumed

Payment Options for Medicare

Concepts and Cases, Global Edition

Standards for Systematic Reviews

Textbook of Clinical Trials

Administration in Mental Health

Vascular Surgery

This text captures the global standards of bariatric surgery practice at a time of change, excitement, and lots of controversy. The text sheds the light on best practices globally by providing a reliable reference to guide the practicing physician anywhere in the world, and from whatever specialty (surgeon, gastroenterologist or endoscopist) to navigate through the many current options of therapy in this rapidly changing field. The text provides high definition illustrations of these techniques to go with the didactic chapters written by the thought leaders in the field. In addition to the technical part, an important part of the book focuses on quality and outcome measures. The rapid growth and innovations impose the need for strict guidelines and quality control. Thought leaders who created the concept of "Centers of Excellence" shed light on outcome measures and different ways to monitor quality. This will appeal to administrators and different ancillary service providers. The medical section plays a major role as combination therapy seems to be the future. An entire section is dedicated to medical weight management with discussions of the dietary and psychological component of care. The text also provides a dedicated discussion of the metabolic aspect of bariatric surgery, cosmetic surgery and issues of training future surgeons. These features differentiate the book from others that only discuss the surgical component, and will broaden the level of interest to all who are involved in the management of this complex disease.

Business Model Generation is a handbook for visionaries, game changers, and challengers striving to defy outmoded business models and design tomorrow's enterprises. If your organization needs to adapt to harsh new realities, but you don't yet have a strategy that will get you out in front of your competitors, you need Business Model Generation. Co-created by 470 "Business Model Canvas" practitioners from 45 countries, the book features a beautiful, highly visual, 4-color design that takes powerful strategic ideas and tools, and makes them easy to implement in your organization. It explains the most common Business Model patterns, based on concepts from leading business thinkers, and helps you reinterpret them for your own context. You will learn how to systematically understand, design, and implement a game-changing business model—or analyze and renovate an old one. Along the way, you'll understand at a much deeper level your customers, distribution channels, partners, revenue streams, costs, and your core value proposition. Business Model Generation features practical innovation techniques used today by leading consultants and companies worldwide, including 3M, Ericsson, Capgemini, Deloitte, and others. Designed for doers, it is for those ready to abandon outmoded thinking and embrace new models of value creation: for executives, consultants, entrepreneurs, and leaders of all organizations. If you're ready to change the rules, you belong to "the business model generation!"

This textbook focuses on the most important parasites affecting dogs, cats, ruminants, horses, pigs, rabbits, rodents, birds, fishes, reptiles and bees. For each parasite, the book offers a concise summary including its distribution, epidemiology, lifecycle, morphology, clinical manifestations, diagnosis, prophylaxis and therapeutic measures. Numerous informative tables and more than 500 color micrographs and schemes present the most important aspects of the parasites, their induced diseases and the latest information on suitable prevention and control measures. 100 questions at the end of the book offer readers the chance to test their comprehension. The book is well suited as both a textbook and a reference guide for veterinarians, students of the veterinary and life sciences, veterinarian nurses, laboratory staff, and pet and livestock owners.

From 1962 to 1971, the U.S. military sprayed herbicides over Vietnam to strip the thick jungle canopy that could conceal opposition forces, to destroy crops that those forces might depend on, and to clear tall grasses and bushes from the perimeters of US base camps and outlying fire-support bases. Mixtures of 2,4-dichlorophenoxyacetic acid (2,4-D), 2,4,5-trichlorophenoxyacetic acid (2,4,5-T), picloram, and cacodylic acid made up the bulk of the herbicides sprayed. The main chemical mixture sprayed was Agent Orange, a 50:50 mixture of 2,4-D and 2,4,5-T. At the time of the spraying, 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD), the most toxic form of dioxin, was an unintended contaminant generated during the production of 2,4,5-T and so was present in Agent Orange and some other formulations sprayed in Vietnam. Because of complaints from returning Vietnam veterans about their own health and that of their children combined with emerging toxicologic evidence of adverse effects of phenoxy herbicides and TCDD, the National Academies of Sciences, Engineering, and Medicine was asked to perform a comprehensive evaluation of scientific and medical information regarding the health effects of exposure to Agent Orange, other herbicides used in Vietnam, and the various components of those herbicides, including TCDD. Updated evaluations were conducted every two years to review newly available literature and draw conclusions from the overall evidence. Veterans and Agent Orange: Update 11 (2018) examines peer-reviewed scientific reports concerning associations between various health outcomes and exposure to TCDD and other chemicals in the herbicides used in Vietnam that were published between September 30, 2014, and December 31, 2017, and integrates this information with the previously established evidence database.

Facilitating Interdisciplinary Research

Family Matters

Sociomedical Perspectives on Patient Care

Desmoid Tumors

The Genetic Basis of Haematological Cancers

Platelets

Written by a team of international experts, this book provides an authoritative overview and practical guide to the molecular biology and genetic basis of haematologic cancers including leukemia. Focusing on the importance of cytogenetics and related assays, both as diagnostic tools and as a basis for translational research, this is an invaluable guide for basic and clinical researchers with an interest in medical genetics and haemato-oncology. The Genetic Basis of Haematological Cancers reviews the etiology and significance of genetic and epigenetic defects that occur in malignancies of the haematopoietic system. Some of these chromosomal and molecular aberrations are well established and already embedded in clinical management, while many others have only recently come to light as a result of advances in genomic technology and functional investigation. The book includes seven chapters written by clinical and academic leaders in the field, organised according to haematological malignancy sub-type. Each chapter includes a background on disease pathology and the genetic abnormalities most commonly associated with the condition. Authors present in-depth discussions outlining the biological significance of these lesions in pathogenesis and progression, and their use in diagnosis and monitoring response to therapy. The current or potential role of specific abnormalities as novel therapeutic targets is also discussed. There is also a full colour section containing original FISH, microarrays and immunostaining images.

Heraclitean Fire

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