

## Medicine Journal Impact Factor

In a rapidly growing field of neuromodulation against pain, this excellent publication presents a unique compilation of the latest theoretical and practical information for electrical stimulation of the peripheral nerves. Chapters cover the use of peripheral nerve stimulation in particular indications such as migraine, cluster headache, pain in Chiari malformation and fibromyalgia, as well as in specific body parts such as head and neck, trunk, and extremities. Furthermore, chapters on history, technical aspects, mechanism of action, terminology, complications and other important aspects of this pain-relieving modality give you a full overview of the field. Written by leading experts, this publication provides a comprehensive and updated summary of the currently available scientific information on peripheral nerve stimulation. All chapters contain original information making this book an invaluable reference for all who deal with the management of severe and chronic pain – including neurosurgeons and neurosurgical trainees, pain specialists and practitioners, anesthesiologists and neurologists. Bonnie Steinbock presents the authoritative, state-of-the-art guide to current issues in bioethics, covering 30 topics in original essays by some of the world's leading figures in the field, as well as by some newer 'up-and-comers'. Anyone who wants to know how the central debates in bioethics have developed in recent years, and where the debates are going, will want to consult this book.

It is a turbulent time for STM publishing. With moves towards open access to scientific literature, the future of medical journals is uncertain and unpredictable. This is the only book of its kind to address this problematic issue. Richard Smith, a previous editor of the British Medical Journal for twenty five years and one of the most influential people within medical journals and medicine depicts a compelling picture of medical publishing. Drawn from the author's own extensive and unrivalled experience in medical publishing, Smith provides a refreshingly honest analysis of current and future trends in journal publishing including peer review, ethics in medical publishing, the influence of the pharmaceutical industry as well as that of the mass media, and the risk that money can cloud objectivity in publishing. Full of personal anecdotes and amusing tales, this is a book for everyone, from researcher to patient, author to publisher and editor to reader. The controversial and highly topical nature of this book, will make uncomfortable reading for publishers, researchers, funding bodies and pharmaceutical companies alike making this useful resource for anyone with an interest in medicine or medical journals. Topic covered include: Libel and medical journals; Patients and medical journals; Medical journals and the mass media; Medical journals and pharmaceutical companies: uneasy bedfellows; Editorial independence; misconduct; and accountability; Ethical support and accountability for journals; Peer review: a flawed process and Conflicts of interest: how money clouds objectivity. This is a unique offering by the former BMJ editor-challenging, comprehensive and controversial. This must be the most controversial medical book of the 21st Century John Illman, MJA News Lively, full of anecdote and he [Smith] is brutally honest British Journal of Hospital Medicine \*\*\*\*\* Please note that the reference to Arup Banerjee on page 100 of this book should be to Anjan Banerjee. We apologise to Professor Arup Banerjee for this oversight. \*\*\*\*\*

This new ASIST monograph is the first to comprehensively address the history, theory, and practical applications of citation analysis, a field which has grown from Garfield's seed of an idea, and to examine its impact on scholarly research forty years after its inception. In bringing together the analyses, insights, and reflections of more than thirty-five leading lights, editors Cronin and Atkins have produced both a comprehensive survey of citation indexing and its applications and a beautifully-realized tribute to Eugene Garfield and his vision, in honor of his seventy-fifth birthday.

3D Printing in Medicine examines the emerging market of 3D-printed biomaterials and its clinical applications. With a particular focus on both commercial and premarket tools, the book looks at their applications within medicine and the future outlook for the field. The book begins with a discussion of the fundamentals of 3D printing, including topics such as materials, and hardware. Chapters go on to cover applications within medicine such as computational analysis of 3D printed constructs, personalized 3D printing and 3D cell and organ printing. The concluding chapters in the book review the applications of 3D printing in diagnostics, drug development, 3D-printed disease models and 3D printers for surgical practice. With a strong focus on the translation of 3D printing technology to a clinical setting, this book is a valuable resource for scientists and engineers working in biomaterial, biomedical, and nanotechnology based industries and academia. Provides a comprehensive and authoritative overview of all the medical applications of 3D printing biomaterials and technologies Focuses on the emerging market of 3D printed biomaterials in clinical applications Reviews both commercial and under development materials, tools, their applications, and future evolution Providing a richer, more complex understanding of a critical chapter in the history of sexually transmitted diseases, In Search of Sexual Health will prove valuable to historians of medicine, public health, and the environment, in addition to scholars of race, gender, sexuality.

Of the thousands of biomarkers that are currently being discovered, relatively few are being validated for further applications, and the potential of a biomarker can be quite difficult to evaluate. To aid in this imperative research, Dr. Kewal K. Jain's Handbook of Biomarkers thoroughly describes many different types of biomarkers and their discovery using various "-omics" technologies, such as proteomics and metabolomics, along with the background information needed for the evaluation of biomarkers as well as the essential procedures for their validation and use in clinical trials. With biomarkers described first according to technologies and then according to various diseases, this detailed book features the key correlations between diseases and classifications of biomarkers, which provides the reader with a guide to sort out current and future biomarkers. Comprehensive and cutting-edge, The Handbook of Biomarkers serves as a vital guide to furthering our understanding of biomarkers, which, by facilitating the combination of therapeutics with diagnostics, promise to play an important role in the development of personalized medicine, one of the most important emerging trends in healthcare today.

The 2018 MDPI Writing Prize invited early stage researchers who are not native English speakers to write on the subject of "the global benefits of open research". Six prizes were awarded, however there were many more entries. This book collates many of those entries and contains inspiring, thought-provoking and original viewpoints of open science through the eyes of those conducting research on a daily basis

[The Rise and Fall of Lamb Blood Transfusion in 19th Century Medicine and Beyond](#)

[Special Purpose Computers](#)

[The Oxford Handbook of Bioethics](#)

[The Genetic Basis of Human Cancer](#)

[A Guide for Clinicians, Educators, and Researchers](#)

["Why I Became an Occupational Physician" and Other Occupational Health Stories](#)

[Impact Factor \ World Family Medicine Journal](#)

[Pharmacogenomics and Personalized Medicine](#)

[A Festschrift in Honor of Eugene Garfield](#)

[A Guide for Midwives and Doctors](#)

[Trauma Induced Coagulopathy](#)

[The Trouble with Medical Journals](#)

*In the past, research involving the relationship between physical activity and health has appeared in many diverse journals, with no one publication being devoted to that relationship. The Journal of Physical Activity and Health (JPAH) answers the need for a single publication with a focus solely on physical activity and health. JPAH publishes original research and review papers examining how physical activity influences all aspects of health, studying physical activity as an exposure as well as an outcome. It also invites papers that examine the behavioral, community, and environmental interventions that may affect physical activity on an individual and population basis. Recent issues of JPAH have addressed topics such as measurement of physical activity, surveillance of physical activity, meeting guidelines for physical activity in working populations, and physical activity intervention in older adults with chronic diseases. Research has been published from many international authors. Articles on physical activity patterns and the environment are planned for later this year. Also available is the online format of JPAH that offers the same authoritative content contained in the print edition, but with the additional advantages of electronically formatted material including the potential to search journals in seconds, access to five years of back issues, and the ability to examine the online version weeks before the print version arrives. Online subscribers are also sent each issue's table of contents by e-mail to announce that a new issue has been published.*

*Thoroughly revised to reflect contemporary diagnostics and treatment, this Third Edition is a comprehensive and practical reference on the assessment and management of acute and chronic pain. This edition features 14 new chapters and is filled with new information on invasive procedures...pharmacologic interventions...neuraxial pharmacotherapy...physical and occupational therapies...diagnostic techniques...pain in terminally ill patients...cancer pain...visceral pain...rheumatologic disorders...managed care...and medicolegal issues. Reorganized with two new sections focusing on diagnostics and cancer pain. A Brandon-Hill recommended title.*

*The purpose of this book is to take stock of what we have learned during the first decade of research on social capital and health. What is social capital? How do we measure it? What have we learned so far about the empirical relationships between social capital and specific health outcomes? What is the potential utility of the concept for designing interventions to improve population health? These are some of the questions that individual chapters will address. [Ed.]*

*This book constitutes the refereed proceedings of the 15th Conference on Artificial Intelligence in Medicine, AIME 2015, held in Pavia, Italy, in June 2015. The 19 revised full and 24 short papers presented were carefully reviewed and selected from 99 submissions. The papers are organized in the following topical sections: process mining and phenotyping; data mining and machine learning; temporal data mining; uncertainty and Bayesian networks; text mining; prediction in clinical practice; and knowledge representation and guidelines.*

*Compassionate communities are communities that provide assistance for those in need of end of life care, separate from any official health service provision that may already be available within the community. This idea was developed in 2005 in Allan Kellehear's seminal volume- Compassionate Cities: Public Health and End of Life Care. In the ensuing ten years the theoretical aspects of the idea have been continually explored, primarily rehearsing academic concerns rather than practical ones. Compassionate Communities: Case Studies from Britain and Europe provides the first major volume describing and examining compassionate community experiments in end of life care from a highly practical perspective. Focusing on community development initiatives and practice challenges, the book offers practitioners and policy makers from the health and social care sectors practical discussions on the strengths and limitations of such initiatives.*

*Furthermore, not limited to providing practice choices the book also offers an important and timely impetus for other practitioners and policy makers to begin thinking about developing their own possible compassionate communities. An essential read for academic, practitioner, and policy audiences in the fields of public health, community development, health social sciences, aged care, bereavement care, and hospice & palliative care, Compassionate Communities is one of only a handful of available books on end of life care that takes a strong health promotion and community development approach.*

*This comprehensive text is suitable for researchers and graduates of a "hot" new topic in medical physics. Written by the world's leading experts, this book aims to present recent developments in plasma medicine, both technological and scientific, reviewed in a fashion accessible to the highly interdisciplinary audience consisting of doctors, physicists, biologists, chemists and other scientists, university students and professors, engineers and medical practitioners. The book focuses on major topics and covers the physics required to develop novel plasma discharges relevant for medical applications, the medicine to apply the technology not only in-vitro but also in-vivo testing and the biology to understand complicated bio-chemical processes involved in plasma interaction with living tissues.*

*The most effective way to decrease women's risk of becoming a breast cancer patient is to avoid attending screening. Mammography screening is one of the greatest controversies in healthcare, and the extent to which some scientists have sacrificed sound scientific principles in order to arrive at politically acceptable results in their research is extraordinary. In contrast, neutral observers increasingly find that the benefit has been much oversold and that the harms are much greater than previously believed. This groundbreaking book takes an evidence-based, critical look at the scientific disputes and the information provided to women by governments and cancer charities. It also explains why mammography screening is unlikely to be effective today. All health professionals and members of the public will find these revelations disturbingly illuminating. It will radically transform the way healthcare policy makers view mammography screening in the future.*

*This second edition of the Manual of Clinical Dialysis is a concise and well-illustrated guide to all aspects of dialysis. All chapters have been revised and present a complete overview of the techniques, processes and equipment involved in clinical dialysis as well as an overview of the complications of dialysis. The manual also provides an overview of common clinical problems related to renal failure such as hypertension, anemia and renal osteodystrophy.*

[Journal of Physical Activity and Health](#)

[Issues in Critical and Emergency Medicine: 2013 Edition](#)

[CDC Yellow Book 2018: Health Information for International Travel](#)

[Smoking Geographies](#)

[Space, Place and Tobacco](#)

[Case Studies from Britain and Europe](#)

[Incorporating the Middle East Journal of Family Medicine - 2013, Vol. 11, No. 3](#)

[Managing Complications in Pregnancy and Childbirth](#)

[Chronic Obstructive Pulmonary Disease Exacerbations](#)

[Developments in Biomedical Engineering](#)

[Peripheral Nerve Stimulation](#)

[3D Printing in Medicine](#)

*concerns within the pharmaceutical industry about generating data that might be difficult to interpret in a regulated environment. There is also a growing appreciation for the challenges in translating this new information into clinical utility, including scientific, commercial, ethical, and policy challenges. Pharmacogenomics and Personalized Medicine, which is part of the Methods in Pharmacology and Toxicology series, comprises chapters on selected aspects of pharmacogenomics and personalized medicine. Our overall intent is to assist both novice and experienced investigators in understanding the current scientific challenges in applying PGx to discovery and clinical development and in making appropriate decisions to engage in and interpret PGx research. Designed to share the experiences of leading experts in the field, the book is a useful guide for conducting PGx research—from discovery to the market, but we also aim to present a realistic perspective on the challenges, practicalities, and obstacles in applying pharmacogenomics. Generally, the book avoids statements such as "Pharmacogenomics is going to revolutionize the practice of medicine," which are neither realistic nor particularly useful to anyone. The book presents an industry perspective on the implementation of PGx in research and development, in drug discovery, and in clinical trials, including recommendations for a systematic approach for assessing the feasibility and added value of PGx studies in clinical trials.*

*"Why I Became an Occupational Physician" and Other Occupational Health Stories brings together an edited collection of the short articles published in the journal Occupational Medicine between 2002 and 2018. The articles originally appeared as 'fillers', commissioned to literally 'fill' the blank spaces at the end of the main scientific papers, but they soon became a feature in their own right. Written by doctors working in occupational medicine and health, the fillers began as a series of pieces exploring the varied and often surprising reasons why the individuals chose to pursue this unique speciality, whether it was a natural career move, triggered by a specific event, or stumbled upon by chance. Over time the articles became much broader in their scope and the journal began to attract pieces from some brilliant writers: Mike Gibson, John Challenor, Nerys Williams, and of course the superlative Anthony Seaton, amongst many others. Each article offers something different: a peek into history, a humorous adventure, a quiet musing, or a thought-provoking observation, but all are tied together under the umbrella of occupational medicine, a speciality that is often little known or understood in the wider world of medicine. This book brings together over 15 years' worth of fascinating and diverse articles into one volume for the first time, giving a rare insight into the world of the occupational physician.*

*Intelligence-Based Medicine: Data Science, Artificial Intelligence, and Human Cognition in Clinical Medicine and Healthcare provides a multidisciplinary and comprehensive survey of artificial intelligence concepts and methodologies with real life applications in healthcare and medicine. Authored by a senior physician-data scientist, the book presents an intellectual and academic interface between the medical and the data science domains that is symmetric and balanced. The content consists of basic concepts of artificial intelligence and its real-life applications in a myriad of medical areas as well as medical and surgical subspecialties. It brings section summaries to emphasize key concepts delineated in each section; mini-topics authored by world-renowned experts in the respective key areas for their personal perspective; and a compendium of practical resources, such as glossary, references, best articles, and top companies. The goal of the book is to inspire clinicians to embrace the artificial intelligence methodologies as well as to educate data scientists about the medical ecosystem, in order to create a transformational paradigm for healthcare and medicine by using this emerging new technology. Covers a wide range of relevant topics from cloud computing, intelligent agents, to deep reinforcement learning and internet of everything Presents the concepts of artificial intelligence and its applications in an easy-to-understand format accessible to clinicians and data scientists Discusses how artificial intelligence can be utilized in a myriad of subspecialties and imagined of the future Delineates the necessary elements for successful implementation of artificial intelligence in medicine and healthcare*

*Chronic Obstructive Pulmonary Disease Exacerbations covers the definition, diagnosis, epidemiology, mechanisms, and treatment associated with COPD exacerbations. This text also addresses imaging and how it plays a pivotal role in the diagnosis and study of exacerbations. Written by today's top experts, Chronic Obstructive Pulmonary Disease Exacerbations*

*The emphasis of the manual is on rapid assessment and decision making. The clinical action steps are based on clinical assessment with limited reliance on laboratory or other tests and most are possible in a variety of clinical settings.*

*This book will serve as a key resource for all clinicians working in orthopedics, sports medicine, and rehabilitation for the sport of tennis. It provides clinically useful information on evaluation and treatment of the tennis player, covering the entire body and both general medical and orthopedic musculoskeletal topics. Individual sections focus on tennis-related injuries to the shoulder, the elbow, wrist, and hand, the lower extremities, and the core/spine, explaining treatment and rehabilitation approaches in detail. Furthermore, sufficient sport science information is presented to provide the clinical reader with extensive knowledge of tennis biomechanics and the physiological aspects of training and rehabilitation. Medical issues in tennis players, such as nutrition and hydration, are also discussed, and a closing section focuses on other key topics, including movement dysfunction, periodization, core training, and strength and conditioning specifics. The expansive list of worldwide contributors and experts coupled with the comprehensive and far-reaching chapter provision make this the highest-level tennis medicine book ever published.*

*The book provides an intensive overview on exosomes in cardiovascular diseases, its potential as biomarkers, as well as pathological and therapeutic effects. It firstly describes the general aspects of exosomes including the definition, formation and secretion of exosomes and highlight their roles as biomarkers and pathological and therapeutic effects in cardiovascular diseases as well. Secondly, basic aspects of exosomes including the purification methods of exosomes, exosomes content, and functional roles of the cardiovascular exosomes are summarized. Thirdly, exosomes as biomarkers of cardiovascular diseases are overviewed including their roles in diagnosis, prognosis and reaction to therapy. Fourthly, pathological effects of exosomes and therapeutic effects of exosomes are highlighted. Finally, future prospects of exosomes in cardiovascular research would be provided. This is an essential reference for researchers working in cell biology and regeneration, as well as clinicians such as cardiologist.*

*This book provides the first comprehensive overview of the emerging field of interdisciplinary salivary bioscience. It serves as a foundational reference guide to the collection, analysis, and interpretation of salivary data, as well as its myriad applications in medicine, surveillance and public health. The ease and non-invasive nature of saliva collection makes it highly useful in diverse fields such as pediatrics, dentistry, neuroscience, psychology, animal welfare and precision medicine. This book introduces students and scientists alike to the vast potential of salivary bioscience in both research and practice.*

[Mesenchymal Stem Cell Therapy](#)

[Artificial Intelligence and Human Cognition in Clinical Medicine and Healthcare](#)

[Radiopharmaceutical Chemistry](#)

[Attributes of Lifestyle and Nature on Humankind](#)

[Tennis Medicine](#)

[15th Conference on Artificial Intelligence in Medicine, AIME 2015, Pavia, Italy, June 17-20, 2015. Proceedings](#)

[Social Capital and Health](#)

[Foundations of Interdisciplinary Saliva Research and Applications](#)

[Medical Writing](#)  
[Biomarkers, Pathological and Therapeutic Effects](#)  
[Evidence-Based Medicine Guidelines](#)  
[The Web of Knowledge](#)

Evidence-Based Medicine Guidelines fills the demand for a handbook discussing the diagnosis and treatment of a wide range of diseases and conditions encountered by health care professionals. The title was first published in Finland by the Finnish Medical Society, where it is now considered to be the single most important support tool for the physicians' decision making in their daily work. What sets EBM Guidelines apart from competing books? Provides physicians with fast and easy access to practice guidelines based on the best available research evidence Covers practically all medical conditions encountered in general practice Developed by over 300 experienced general practitioners and specialists worldwide Includes both diagnostic and therapeutic guidelines, and recommendations on diagnostic tests and drug dosage Presented in a user-friendly format with self contained chapters based on clinical subjects Clear and concise explanations of all available evidence results in the guideline for treatment The strength of evidence is graded from A-D making this title a quick and easy reference whenever and wherever you need it! Assumes no prior knowledge of EBM or statistics - all the work of searching and appraisal has been done for you! Seeks to include guidelines where clinical evidence is incomplete or unavailable Contains full-colour photographs and tables throughout Easy-to-read and fast support at the point of care - EBM Guidelines: Summarises the best available evidence - Cochrane reviews - DARE abstracts - Clinical Evidence topics - original articles in medical journals - abstracts in the Health Technology Assessment Database - NHS Economic Evaluation Evaluates and grades the strength of all individual evidence from A (Strong research-based evidence) to D (No scientific evidence) Suggests guidelines based on clinical evidence. If clinical evidence is inadequate or missing, an expert panel evaluate all other available information and suggests the appropriate guideline With over 1000 problem-orientated or disease-specific guidelines including reference to evidence summaries for all guidelines, this title is the most extensive collection of guidelines for primary care today. Here are just a few examples of the raving reviews for Evidence-Based Medicine Guidelines: "An excellent resource... quick to use, even during consultations...very helpful to check whether our preferred diagnostic and therapeutic methods are adequate...competent suggestions based on real evidence..." –Heinz Bhend, PRIMARY CARE "clinically useful answers...easy-to-read ...this resource is worth using..." –Carl Heneghan, Centre for Evidence-Based Medicine, Oxford, UK, EVIDENCE-BASED MEDICINE Journal

The first edition of this publication was aimed at defining the current concepts of trauma induced coagulopathy by critically analyzing the most up-to-date studies from a clinical and basic science perspective. It served as a reference source for any clinician interested in reviewing the pathophysiology, diagnosis, and management of the coagulopathic trauma patient, and the data that supports it. By meticulously describing the methodology of most traditional as well as state of the art coagulation assays the reader is provided with a full understanding of the tests that are used to study trauma induced coagulopathy. With the growing interest in understanding and managing coagulation in trauma, this second edition has been expanded to 46 chapters from its original 35 to incorporate the massive global efforts in understanding, diagnosing, and treating trauma induced coagulopathy. The evolving use of blood products as well as recently introduced hemostatic medications is reviewed in detail. The text provides therapeutic strategies to treat specific coagulation abnormalities following severe injury, which goes beyond the first edition that largely was based on describing the mechanisms causing coagulation abnormalities. Trauma Induced Coagulopathy 2nd Edition is a valuable reference to clinicians that are faced with specific clinical challenges when managing coagulopathy.

In the mid-1870s, the experimental therapy of lamb blood transfusion spread like an epidemic across Europe and the USA. Doctors tried it as a cure for tuberculosis, pellagra and anemia; proposed it as a means to reanimate seemingly dead soldiers on the battlefield. It was a contested therapy because it meant crossing boundaries and challenging taboos. Was the transfusion of lamb blood into desperately sick humans really defensible? The book takes the reader on a journey into hospital wards and lunatic asylums, physiological laboratories and 19th century wars. It presents a fascinating story of medical knowledge, ambitions and concerns - a story that provides lessons for current debates on the morality of medical experimentation and care.

Smoking Geographies provides a research-led assessment of the impact of geographical factors on smoking. The contributors uncover how geography can show us not only why people smoke but also broader issues of tobacco control, providing deeper clarity on how smoking and tobacco is 'governed'. The text centres on one of the most important public health issues worldwide, and a major determinant of preventable mortality and morbidity in developed and developing countries Records the outcomes of a long-term research collaboration that brings a geographical lens to smoking behaviour Uncovers how geography can play a part in understanding not only why people smoke but also broader issues of tobacco control Provides a deeper understanding of how smoking and tobacco is 'governed', regarding where people may smoke, but also more subtle governance as a climate is produced in which smoking becomes 'denormalised' Brings both quantitative and qualitative perspectives to bear on this major source of mortality and morbidity

Reveals what leading experts have recently discovered about cancers caused by DNA alterations! The second edition of THE GENETICS OF CANCER, newly titled THE GENETIC BASIS OF HUMAN CANCERS, updates and informs on the most recent progress in genetic cancer research and its impact on patient care. With contributions by the foremost authorities in the field, this fascinating new edition reports on how to understand and predict tumor development - information that can enhance decision-making and advance genetic research. 2ND Edition Highlights NEW CHAPTERS: \* Peutz-Jeghers syndrome \* Juvenile polyposis syndrome \* Tumor genome instability \* Gene expression profiling in cancer \* Pilomatricoma and pilomatric carcinoma \* Hereditary paragangliomas of the head and neck \* Cylindromatosis \* Familial cardiac myxomas and carney complex \* Cancers of the oral cavity and pharynx \* Genetic abnormalities in lymphoid malignancies THOROUGHLY REVISED: \* Every chapter has been meticulously reviewed and revised to incorporate the most recent research and clinical findings \* Includes a valuable introduction by renowned editors Vogelstein & Kinser\* Features 150 MORE illustrations than the previous edition

This book is a comprehensive guide to radiopharmaceutical chemistry. The stunning clinical successes of nuclear imaging and targeted radiotherapy have resulted in rapid growth in the field of radiopharmaceutical chemistry, an essential component of nuclear medicine and radiology. However, at this point, interest in the field outpaces the academic and educational infrastructure needed to train radiopharmaceutical chemists. For example, the vast majority of texts that address radiopharmaceutical chemistry do so only peripherally, focusing instead on nuclear chemistry (i.e. nuclear reactions in reactors), heavy element radiochemistry (i.e. the decomposition of radioactive waste), or solely on the clinical applications of radiopharmaceuticals (e.g. the use of PET tracers in oncology). This text fills that gap by focusing on the chemistry of radiopharmaceuticals, with key coverage of how that knowledge translates to the development of diagnostic and therapeutic radiopharmaceuticals for the clinic. The text is divided into three overarching sections: First Principles, Radiochemistry, and Special Topics. The first is a general overview covering fundamental and broad issues like "The Production of Radionuclides" and "Basics of Radiochemistry". The second section is the main focus of the book. In this section, each chapter's author will delve much deeper into the subject matter, covering both well established and state-of-the-art techniques in radiopharmaceutical chemistry. This section will be divided according to radionuclide and will include chapters on radiolabeling methods using all of the common nuclides employed in radiopharmaceuticals, including four chapters on the ubiquitously used fluorine-18 and a "Best of the Rest" chapter to cover emerging radionuclides. Finally, the third section of the book is dedicated to special topics with important information for radiochemists, including "Bioconjugation Methods," "Click Chemistry in Radiochemistry", and "Radiochemical Instrumentation." This is an ideal educational guide for nuclear medicine physicians, radiologists, and radiopharmaceutical chemists, as well as residents and trainees in all of these areas.

Free Radicals in Biology and Medicine has become a classic text in the field of free radical and antioxidant research. Now in its fifth edition, the book has been comprehensively rewritten and updated whilst maintaining the clarity of its predecessors. Two new chapters discuss 'in vivo' and 'dietary' antioxidants, the first emphasising the role of peroxiredoxins and integrated defence mechanisms which allow useful roles for ROS, and the second containing new information on the role of fruits, vegetables, and vitamins in health and disease. This new edition also contains expanded coverage of the mechanisms of oxidative damage to lipids, DNA, and proteins (and the repair of such damage), and the roles played by reactive species in signal transduction, cell survival, death, human reproduction, defence mechanisms of animals and plants against pathogens, and other important biological events. The methodologies available to measure reactive species and oxidative damage (and their potential pitfalls) have been fully updated, as have the topics of phagocyte ROS production, NADPH oxidase enzymes, and toxicology. There is a detailed and critical evaluation of the role of free radicals and other reactive species in human diseases, especially cancer, cardiovascular, chronic inflammatory and neurodegenerative diseases. New aspects of ageing are discussed in the context of the free radical theory of ageing. This book is recommended as a comprehensive introduction to the field for students, educators, clinicians, and researchers. It will also be an invaluable companion to all those interested in the role of free radicals in the life and biomedical sciences.

THE ESSENTIAL WORK IN TRAVEL MEDICINE -- NOW COMPLETELY UPDATED FOR 2018 As unprecedented numbers of travelers cross international borders each day, the need for up-to-date, practical information about the health challenges posed by travel has never been greater. For both international travelers and the health professionals who care for them, the CDC Yellow Book 2018: Health Information for International Travel is the definitive guide to staying safe and healthy anywhere in the world. The fully revised and updated 2018 edition codifies the U.S. government's most current health guidelines and information for international travelers, including pretravel vaccine recommendations, destination-specific health advice, and easy-to-reference maps, tables, and charts. The 2018 Yellow Book also addresses the needs of specific types of travelers, with dedicated sections on: · Precautions for pregnant travelers, immunocompromised travelers, and travelers with disabilities · Special considerations for newly arrived adoptees, immigrants, and refugees · Practical tips for last-minute or resource-limited travelers · Advice for air crews, humanitarian workers, missionaries, and others who provide care and support overseas Authored by a team of the world's most esteemed travel medicine experts, the Yellow Book is an essential resource for travelers -- and the clinicians overseeing their care -- at home and abroad.

[The Handbook of Biomarkers](#)  
[Mammography Screening](#)  
[Exosomes in Cardiovascular Diseases](#)  
[Compassionate Communities](#)  
[Strange Blood](#)  
[Free Radicals in Biology and Medicine](#)  
[The Global Benefits of Open Research](#)  
[A Complete Guide to Evaluation, Treatment, and Rehabilitation](#)  
[Practical Pain Management](#)  
[Epidemiology of Communicable and Non-Communicable Diseases](#)  
[Manual of Clinical Dialysis](#)  
[South African Medical Journal](#)

*Special Purpose Computers describes special-purpose computers and compares them to general-purpose computers in terms of speed and cost. Examples of computers that were designed for the efficient solution of long established algorithms are given, including Navier-Stokes hydrodynamic solvers, classical molecular dynamic machines, and Ising model computers. Comprised of seven chapters, this volume begins by documenting the progress of the CalTech Concurrent Computation Program and its evolution from computational high-energy physics to a supercomputer initiative, with emphasis on the lessons learned including computer architecture issues and the trade-offs between in-house and commercial development. The reader is then introduced to the QCD Machine, a special-purpose parallel supercomputer that was designed and built to solve the lattice quantum chromodynamics problem. Subsequent chapters focus on the Geometry-Defining Processors and their application to the solution of partial differential equations; the Navier-Stokes computer; parallel processing using the Loosely Coupled Array of Processors (LCAP) system; and the Delft Ising system processor. The design and implementation of the Delft molecular-dynamics processor are also described. This book will be of interest to computer engineers and designers.*

*Issues in Critical and Emergency Medicine / 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Injury Research. The editors have built Issues in Critical and Emergency Medicine: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Injury Research 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 Critical and Emergency Medicine: 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/.*

*Human sufferings, including deaths, can be reduced or avoided by applying routine principles of hygiene in individuals' lives. Some hygiene routines are purely simple remedies, which are inexpensive, affordable, acceptable and easily accessible. It is evident that change is first enacted from within the mindset of an individual, then transmitted to families, groups and communities, and eventually the mindset of a nation can change creating an environment which is better for everybody to live in. This book contains chapters discussing conditions or diseases that may not be common in the readers' area. Caution as such may never be underestimated considering the fact that we are living in a global village where one can never say 'this does not occur in my area' but rather question, does this occur in my community, why does it occur, who is affected, where and when does it occur and what can be done about it? These questions constitute what epidemiology is all about, and their precise and comprehensive answers can transform lives and help us have the right perceptions for the health challenges we face and accept the possibility of dealing with them directly.*

*Over the past decade, significant efforts have been made to develop stem cell-based therapies for difficult to treat diseases. Multipotent mesenchymal stromal cells, also referred to as mesenchymal stem cells (MSCs), appear to hold great promise in regards to a regenerative cell-based therapy for the treatment of these diseases. Currently, more than 200 clinical trials are underway worldwide exploring the use of MSCs for the treatment of a wide range of disorders including bone, cartilage and tendon damage, myocardial infarction, graft-versus-host disease, Crohn's disease, diabetes, multiple sclerosis, critical limb ischemia and many others. MSCs were first identified by Friendenstein and colleagues as an adherent stromal cell population within the bone marrow with the ability to form clonogenic colonies in vitro. In regards to the basic biology associated with MSCs, there has been tremendous progress towards understanding this cell population's phenotype and function from a range of tissue sources. Despite enormous progress and an overall increased understanding of MSCs at the molecular and cellular level, several critical questions remain to be answered in regards to the use of these cells in therapeutic applications. Clinically, both autologous and allogenic approaches for the transplantation of MSCs are being explored. Several of the processing steps needed for the clinical application of MSCs, including isolation from various tissues, scalable in vitro expansion, cell banking, dose preparation, quality control parameters, delivery methods and numerous others are being extensively studied. Despite a significant number of ongoing clinical trials, none of the current therapeutic approaches have, at this point, become a standard of care treatment. Although exceptionally promising, the clinical translation of MSC-based therapies is still a work in progress. The extensive number of ongoing clinical trials is expected to provide a clearer path forward for the realization and implementation of MSCs in regenerative medicine. Towards this end, reviews of current clinical trial results and discussions of relevant topics association with the clinical application of MSCs are compiled in this book from some of the leading researchers in this exciting and rapidly advancing field. Although not absolutely all-inclusive, we hope the chapters within this book can promote and enable a better understanding of the translation of MSCs from bench-to-bedside and inspire researchers to further explore this promising and quickly evolving field.*

*This book is a clear and comprehensive guide that assists readers in translating observations, ideas, and research into articles, reports, or book chapters ready for publication. For both researchers and practicing physicians, skills in medical writing are essential. Dr. Robert B. Taylor, a distinguished leader in academic medicine, uses a clear, conversational style throughout this book to emphasize the professional and personal enrichment that writing can bring. The text includes in depth instructions for writing and publishing: review articles, case reports, editorials and letters to the editor, book reviews, book chapters, reference books, research protocols, grant proposals, and research reports. This third edition is additionally fully updated to include the intricacies of medical writing and publishing today, with new coverage of: open access, pay to publish and predatory journals, peer review fraud, publication bias, parachute studies, public domain images, and phantom authors. Loaded with practical information, tips to help achieve publication, and real world examples, Medical Writing can improve skills for clinicians, educators, and researchers, whether they are new to writing or seasoned authors.*

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