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Note: Prices are subject to change.
With the term perioperative anesthesia, it is advocated that anesthesia should be considered an exhaustive process, especially in major surgeries. The purposes of this process are as follows: in the preoperative period, the patient's preparation is provided in different clinical and psychological ways; in the intraoperative period, hemodynamic, surgical, cardiac, and all systems are protected; and in the postoperative period, the patient is recovered from the anesthesia, and short-term complications are prevented.

In the postoperative period, in terms of patient safety, anesthesia recovery, and surgical follow-up, it is undoubtedly beneficial to follow up with patients in PACU for the first 24-48 hours before taking them to the service, especially for early complications, prolonged recovery, and close follow-up. PACU, an important constitute of the perioperative process, is also where every risky postoperative patient will be followed. This book aims to examine every stage of the PACU process from a clinical perspective beyond nursing care and support the medical literature. In the book chapters, the expected risks in the patients and those that should be applied clinically in treatment and follow-up processes will be discussed in general.

Postoperative pain is a common problem in clinical practice that becomes chronic in approximately 10% to 30% of adults who undergo surgery, being severe in 5 to 10% of them. It is one of the main causes of chronic pain, which makes it a major public health problem. It generates in patients who suffer it a worsening of their quality of life, their psychological well-being, and disability with the consequent incapacity for work. Given that both its etiology and its consequences are complex and multifactorial, postoperative pain must be approached from a multimodal perspective: preventive, pharmacological, nutritional, rehabilitative, nursing intervention, psychological and, in those refractory cases, through surgical approaches or nerve block techniques. This book aims at first to analyze the pathophysiological and psychological bases that underlie its etiology. Next, it aims to carry out an updated review of the multidisciplinary programs for the treatment of postoperative pain that have been carried out and what their results have been. Moreover, the contribution of each of these disciplines in the ambulatory management of postoperative pain will be reviewed. Finally, we want to study the peculiarities of the management of this type of pain in the oncological patient, as well as the personal and socioeconomic consequences and the increase in other comorbidities of this important reason for consultation.
Medicine and Health

ATHLETICS

Sports Medicine

Current Issues in Kinesiology and Sport Pedagogy
Colin G. Pennington (Assistant Professor, Research Fellow, Department of Sport Science, School of Kinesiology, College of Education, Tarleton State University, Texan Rider Drive, Fort Worth, Texas, USA)

In series: Physical Fitness, Diet and Exercise
Publication Date: 12/03/2021
235 pp.
Hardcover: 978-1-68507-187-5. $160.00
e-book: 978-1-68507-294-0. $160.00

This book provides an overview of current issues being discussed in higher-education kinesiology and sport pedagogy departments, as well as current research being conducted in physical education, physical education preparatory programs, and kinesiology departments more generally. Those who are served valuable content from this publication include kinesiology faculty, and college/university instructors who prepare future physical educators, future coaches, and future allied-health professionals and movement specialists [such as personal trainers, athletic trainers, physical therapists, etcetera].

This book is composed of an assortment of both qualitative and quantitative research. Some chapters include empirically collected data, others are more philosophical ‘think-pieces’ -- representing an array of current issues, research foci, methodologies, and perspectives in the field of kinesiology.

Contributing authors hail from institutions all over the United States – ranging from Texas, Washington, Illinois, Georgia, and Alabama – providing a broad and rich variety of perspectives, opinions, and experiences in the field.

Each chapter is specific to an important line of research or concept being explored in higher-education kinesiology and sport pedagogy. Readers will find that most chapters do not overlap in particular concept, but rather they all generally apply to the advancement of leadership, mentorship, teaching and conducting research in kinesiology and sport pedagogy – making the book a broad overview of current topics and the status of modern kinesiology departments in higher education.

CARDIOVASCULAR SYSTEM

Horizons in World Cardiovascular Research. Volume 22
Eleanor H. Bennington

In series: Horizons in World Cardiovascular Research
Publication Date: 01/28/2022
184 pp.
Hardcover: 978-1-68507-568-2. $250.00
e-book: 978-1-68507-596-5. $250.00

This volume includes five chapters that present recent updates in cardiovascular research from around the world. Chapter One discusses how histamine is transported from the gut via the bloodstream to the heart and puts forward novel evidence that histamine can be produced in the heart itself. Chapter Two provides an analytical comparison of induced pluripotent stem cells, mesenchymal stem cells, and cardiosphere-derived cells commonly used for clinical cardiac applications. Chapter Three compares outcomes of patients who underwent transcatheter aortic valve implantation with those who underwent sutureless aortic valve replacement. Chapter Four analyzes changes in electrocardiogram leads, reflecting manifestation and development of acute and chronic myocardial ischemia. Lastly, Chapter Five reviews existing and upcoming cardiac magnetic resonance imaging techniques to evaluate systemic and pulmonary impedance in healthy individuals and cardiovascular disease states.
A Compendium of Principles and Practice of Laser Biophotonics in Oral Medicine
Dr. Fakir Mohan Debta, BDS, MDS (Professor and Head, Dept. of Oral Medicine and Radiology, SCB Dental College and Hospital, Cuttack, Odisha, India), Dr. Ekagrata Mishraa, BDS, MDS (Post-PG Resident, Dept. of Oral Medicine and Radiology, SCB Dental College and Hospital, Cuttack, Odisha, India) and Dr. Neha Patyal, BDS, MDS (Post-PG Resident, Dept. of Public Health Dentistry, SCB Dental College and Hospital, Cuttack, Odisha, India)

In series: Dentistry and Oral Sciences
Publication Date: 01/14/2022
190 pp.
Hardcover: 978-1-68507-441-8. $160.00
e-book: 978-1-68507-516-3. $160.00

Photonics is a light-based optical technology that is considered as the leading technology for the new millennium. The science of light generation, manipulation, transmission, and measurement is known as photonics. The application of photonics technologies and principles to medicine and life sciences is known as biophotonics. Laser (Light Amplification by the Stimulated Emission of Radiation) is one of the most important inventions of the twentieth century in biophotonic technology. In the field of oral medicine, lasers have a multitude of preventive, therapeutic and adjunctive applications. Applications in clinical scenarios like orofacial pain, temporomandibular joint disorders, potentially malignant disorders of oral mucosa, herpes, recurrent aphthous ulcers, burning mouth syndrome, nerve repair, laser and antimicrobial photodynamic therapies in cancer patients, non-neoplastic proliferative lesions of oral soft tissue, and vascular lesions have shown promising results. Lasers also aid in optically enhanced diagnosis of oral lesions using fluorescence, coherence and spectroscopic techniques. This endeavor, entitled A Compendium of Principles and Practice of Laser Biophotonics in Oral Medicine, is a concise but comprehensive body of information, written in a simple tone, attempting to cruise the readers’ vision through every perspective, to seek objective information on all aspects of the instrument and its uses, fostering a preliminary step towards efficient laser diagnosis and therapy. This book facilitates exploration of physical concepts with lucidity without getting engrossed in excruciating jargon.

Laser Light Therapy in Dentistry: Efficacy, Uses and Limitations
Georgios E. Romanos, DDS, PhD (Professor, Stony Brook University, School of Dental Medicine, Department of Periodontology, Stony Brook, New York, USA)

In series: Dentistry and Oral Sciences
Publication Date: 11/11/2021
454 pp.
Hardcover: 978-1-68507-068-7. $270.00
e-book: 978-1-68507-345-9. $270.00

Light Therapy in Dentistry: Efficacy, Uses and Limitations is a scientific puzzle of new information for laser applications in dentistry and their translation to medicine. It describes a symphony of essential information and orchestration of therapeutic concepts presenting the jewels of learning to clinicians, researchers, and specialized individuals who want to know more about laser applications in dental sciences.
Multiple Choice Questions on Oral Medicine and Radiology - A Rapid Review in Dentistry
Karthik Rajaram Mohan, (Associate Professor, Department of Oral Medicine and Radiology, Vinayaka Mission’s Sankarachariyar Dental College, Vinayaka Mission’s Research Foundation (Deemed to be University), Salem, Tamilnadu, India), Ravikumar Pethagounder Thangavel (Head of Department, Department of Oral Medicine and Radiology, Vinayaka Mission’s Sankarachariyar Dental College, Vinayaka Mission’s Research Foundation (Deemed to be University), Salem, Tamilnadu, India) and Saramma Mathew Fenn, PhD (Associate Professor, Department of Oral Medicine and Radiology, Vinayaka Mission’s Sankarachariyar Dental College, Vinayaka Mission’s Research Foundation (Deemed to be University), Salem, Tamilnadu, India)

In series: Dentistry and Oral Sciences
Publication Date: 02/17/2022
390 pp.
Hardcover: 978-1-68507-584-2. $230.00

This book contains a series of multiple-choice questions on oral medicine and radiology that will be helpful for undergraduates and postgraduates in the field of dentistry, as well as undergraduates who are applying for licensure examinations like NEET, USMLE, and National Board examinations.

DEMAND

Mycosis Fungoides: Causes, Diagnosis and Treatment
Xiaohui Zhang, MD, PhD (Associate Member, Department of Pathology, H. Lee Moffitt Cancer Center and Research Institute, Tampa, FL, USA) and Lubomir Sokol, MD, PhD (Senior Member, Department of Malignant Hematology, H. Lee Moffitt Cancer Center and Research Institute, Tampa, FL, USA)

In series: Dermatology - Laboratory and Clinical Research
Publication Date: 11/11/2021
282 pp.
Hardcover: 978-1-68507-093-9. $195.00
e-book: 978-1-68507-156-1. $195.00

Mycosis fungoides (MF) is the most common subtype of cutaneous lymphomas. The initial diagnosis of MF is often difficult, particularly in the early stage, requiring arduous clinical and pathological workups with repeat skin biopsies. Differential diagnosis ranging from benign dermatoses to other hematolymphoid neoplasms can be tricky and extremely challenging. Clinical management and treatment vary widely among providers and institutions. This book is an up-to-date overview of MF, covering almost every aspect of the disease. The chapters encompass etiology, clinical workup and diagnosis, pathological diagnosis, clinical and pathological variants, differential diagnosis, treatment and prognosis, as well as the state-of-the-art understanding of the molecular genetics of MF. Pediatric MF and Sézary syndrome (SS) are also included for completeness in the book.
The International Human Motricity Network (IHMN) is a non-profit educational, technical, scientific and cultural association whose main objectives are to promote the voluntary association of teaching, research or scientific dissemination institutions, as well as people and physical or legal entities interested in education, research and dissemination of science. For this purpose, it carries out bilateral or multilateral cooperation agreements between all involved, in order to promote teaching, research and content qualification for intervention in the promotion of health and performance through human motor skills.

All professionals from different areas of knowledge have the IHMN as their locus of action, since there is no limit to the crossing of information from different types of knowledge that can directly or indirectly achieve the objective of this Network. Thus, one can see the perception that all involved have of the importance of multidisciplinarity in the construction of interdisciplinarity and how much, from basic to intervention research, each of its effective members will be welcomed.

This book is a first action of all members of the Network in order to present the main lines of investigation, their themes and research results so that more researchers, institutions and other networks want to join our work, which excels in all its actions for the good of the human being.

Our greatest desire is that reading the information contained herein will be a stimulus for research, a guide to research topics, an understanding of contemporary trends and, fundamentally, a way of attracting new professionals to the world of research and the dissemination of knowledge. To do so, we list our research group leaders with the most recent results in their research topics so that you have in your hands the excellence of our knowledge produced between 2007 and 2020, the time of IHMN's existence.

Enjoy the knowledge you are now accessing and feel invited to participate in the International Human Motricity Network and thus be able to produce even more scientific knowledge, as well as disseminate to all people the importance of the human motricity and its benefits and the great value of life to the fullest.
behavioral and/or cognitive behavioral interventions. Recently, assistive technology-based programs have been implemented. This volume includes seven chapters and addresses the newest advances in the diagnosis and treatment of individuals with Fragile X syndrome. Chapter One encompasses the molecular features and pathological bases of the disease. A comprehensive literature overview was conducted. The role of the FMR protein was emphasized although few studies evaluated its function. Chapter Two deals with the neuropsychiatric symptoms related to the syndrome. A complete conceptual framework was exhaustively detailed. Chapter Three emphasizes the role of pharmacotherapy in the treatment of Fragile X syndrome. Clinical relevance was outlined. Chapter Four provides the reader with a conceptual analysis. Besides molecular features, brain development was described. Challenging behaviors were included and the importance of the early combined intervention was critically discussed. Chapters Five, Six, and Seven detailed three case reports on the effectiveness and the suitability of assistive technology-based interventions. Specifically, Chapter Five argued for microswitch-cluster technology focused on pursuing the dual simultaneous goal of promoting an adaptive response (i.e., object manipulation) and reducing a challenging behavior (i.e., hand mouthing). Chapter Six describes a combined microswitch and VOCA program useful to ensure the participant has the choice between independent access to positive stimulation and asking for social interaction. Finally, Chapter Seven includes choice opportunities through an assistive technology-mediated program involving a boy with Fragile X in a functional task.

Targeted readers (i.e., caregivers, clinicians, speech therapists, professionals, psychologists, neurologists, parents of children with Fragile X syndrome, teachers) may find interesting and stimulating tips and insights for daily use in clinical research and practice, with the dual objective of diagnosis and treatment.

Recurrence Risk in Autism Spectrum Disorders

Michael Beenstock (Hebrew University of Jerusalem, Professor of Economics, Jerusalem, Israel)

In series: Genetics - Research and Issues
Publication Date: 11/23/2021
238 pp.
Hardcover: 978-1-68507-129-5; $160.00
e-book: 978-1-68507-244-5; $160.00

The study of autism development disorders has been dominated by the neurodevelopmental paradigm for almost 50 years. This book challenges the exclusivity of the neurodevelopmental paradigm by using unique population cohort data to study recurrence risk of ASD in Israel. Randomness in the timing of ASD diagnoses of index children is exploited, as in a natural experiment, to randomize within-group reproductive stoppage. Some parents of children on the spectrum consciously refrained from reproductive stoppage by having further children. Other parents had further children before their index child was diagnosed. The former parents raised their further children having gained experience in raising children on the spectrum. The latter parents raised their children under a veil of ignorance, to be broken when their index children were diagnosed.

Whereas neurodevelopmental theory predicts that recurrence risk is the same for both types of parents, behavioral theory predicts that they should be different. Population cohort data for Israel corroborate the predictions of behavioral theory. Indeed, corroboration applies in four different tests. More generally, the author calls for a level playing field in which behavioral theory of recurrence risk is placed on an equal footing as the dominant neurodevelopmental paradigm. He also argues for methodological pluralism in which the epidemiological toolbox is augmented with methods from statistics and econometrics.

In summary, the author offers a critique of the current state of research on recurrence risk of ASD.

Driving Hospitals Towards Performance: Practical Managerial Guidance to Reach the “Perfect Symphony”

Irene Gabutti (Università Cattolica del Sacro Cuore Rome, Lazio, Italy)

In series: Health Care in Transition
Publication Date: 12/16/2021
136 pp.
Softcover: 978-1-68507-225-4; $95.00
e-book: 978-1-68507-382-4; $95.00

Hospitals, just like orchestras, are made up of many “instruments” which play their notes on their own, yet within a broader symphony. If even one instrument fails in doing its part, or if the orchestra director leaves even one of them behind, the overall symphony will just
not sound right and the final performance will be ruined. This book is aimed at providing practical guidance to hospital managers who are called to implement complex organizational transformations. In doing so, they must take into account a high number of managerial tools and dynamics which should not be overlooked. Failing to do so may negatively affect their long-term success in reaching strategic objectives.

Hospitals do not have violins, drums, and trumpets, but they do have departments, clinical wards, clinical pathways, and functional units. Moreover, their professionals must carry out different activities such as assisting patients, reporting their actions, communicating and, more and more frequently, managing parts of the hospitals themselves. Not only physicians are in charge of these aspects. Nurses and other clinical and non-clinical professionals are co-responsible, facing frequent changes in the number and type of activities they must perform.

In this context, hospital managers must design organizational charts and implement them by distributing resources and responsibilities, by setting and monitoring objectives, and by assessing the performance of units. They must motivate their staff and ensure an effective use of technology. Yet, although healthcare management is widely studied worldwide, it is rare to find contributions with such a broad and holistic point of view. Although each aspect and item of hospital management is key in reaching organizational success, the risk of overlooking one or more of them is high. Specifically, if management fails in directing all its tools towards its objectives, the chances of reaching outstanding performance are poor. Managerial tools must be used in an integrated and coherent way as multiple components of a single managerial strategy.

Environmental Health in Malaysia

Hisham Atan Edinur, PhD (Associate Professor, School of Health Sciences, Health Campus, Universiti Sains Malaysia, Kubang Kerian, Kelantan, Malaysia), Sabreena Safuan, PhD (Senior Lecturer, School of Health Sciences, Universiti Sains Malaysia, Kubang Kerian, Kelantan, Malaysia) and Mohd Tajuddin Abdullah, PhD (Professor, Faculty of Fisheries and Food Technology, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia)

In series: Health Care in Transition
Publication Date: 09/17/2021
348 pp.
Hardcover: 978-1-68507-114-1. $230.00

Malaysia’s political stability and economic prosperity have contributed towards its growing population comprising of residents and an influx of laborers from other countries including Indonesia, Bangladesh and Myanmar. Malaysia now hosts a population of 32 million from which an estimated 3 million are migrants that support the agricultural and electronic sectors. This book highlights the current health related issues in Malaysia including those zoonotic diseases and non-communicable diseases that are unique and common to tropical countries. Other environmental factors that have positive and negative impacts on health such as medical constituents from local plants are also discussed.

Essential Sleep Medicine and Surgery

Maria V. Suurna, MD, FACS (Department of Otolaryngology – Head and Neck Surgery, Weill Cornell Medicine, New York, New York, USA), Stacey L. Ishman, MD (Healthvine Health Network, Tristate Child Health Services, Department of Otolaryngology – Head and Neck Surgery, University of Cincinnati College of Medicine, Cincinnati, Ohio, USA), Josephine H. Nguyen, MD (Assistant Editor – Sacramento Ear, Nose, and Throat Surgical and Medical Group, Inc., Stockton, California, USA) and KJ Lee, MD (Chief Editor – Yale University School of Medicine, Quinnipiac University Netter School of Medicine, New Haven, Connecticut, USA; Hofstra University Zucker School of Medicine, Hempstead, New York, USA)

In series: KJ Lee Essential Medicine Series
Publication Date: 12/17/2021
682 pp.
Hardcover: 978-1-68507-220-9. $245.00
e-book: 978-1-68507-389-3. $245.00

This textbook presents a succinct yet comprehensive overview of the current essential topics in sleep medicine. Each chapter, written by experts in the many fields that make up sleep medicine, provides a unique, multidisciplinary perspective on the diagnosis and management of sleep disorders. Information is presented in outline format to optimize the learning experience with multiple choice questions to consolidate learning and practice guidelines to further one’s grasp of the topics while
presenting the opportunity for efficient reference. Finally, this textbook’s outline format, clear and concise language, and rich set of practice guidelines make it a trusted resource for nonmedical professionals hoping to learn more about sleep disorders and their treatments.

**Novel Perspectives in Economics of Personalized Medicine and Healthcare Systems**

*Romina Pržiklas Družeta, PhD (Assistant Professor, Faculty of Economics and Tourism, Juraj Dobrila University of Pula, Croatia), Marinko Škare, PhD (Vice Rector for Research, Art and Cooperation, Juraj Dobrila University of Pula, Croatia) and Sandra Kraljević Pavelić, PhD (Professor, Faculty of Health Studies, University of Rijeka, Croatia)*

In series: *Health Care in Transition*

Publication Date: 12/17/2021

540 pp.

Hardcover: 978-1-68507-390-9. $310.00

e-book: 978-1-68507-393-0. $310.00

This book represents a valuable interdisciplinary contribution created to fill an existing gap in the field of health economics and healthcare systems.

The book brings the latest insights from the growing field of health economics and healthcare systems. It deals with various economic, technological, sociological, ethical, legal and philosophical implications and questions arising from the development and implementation of personalized medicine. It is unprecedented in combining practical guidelines for the use of economic tools and techniques with an analysis of the current process of decision-making in the health service sector. The book also provides several insights into the factors that determine human health, the socioeconomic aspects of population aging and the social implications of the evolving burden of disease.

Some contributions are highly innovative and cover extremely relevant branches of medicine such as oncology, neurology and endocrinology. In addition, in a brave, yet professional and sovereign manner, the book covers the issue of biological predictors of health outcomes; though they are currently mainly used as global analytical methods, they are yet to be applied or have only recently been applied in clinical medicine. Further, it provides an example from traditional Korean medicine, a proven and valuable tool for personalized medical healthcare.

This edition is unique in the sense that 30 chapters were written by 41 authors, all of them experts in their respective fields of research. The authors hail from Croatia, Hungary, South Korea and the United States. The volume is intended to serve as valuable teaching material for university students, as well as a reference book for research scholars, policymakers, business executives, health managers, physicians and freelance readers.

**IMMUNOLOGY**

**A Clinical Manual of Sarcoidosis**

*Vikas Pathak, MD, FCCP, FACP, FCCM, ATSF, DAABIP (Interventional Pulmonology and Critical Care Medicine, Associate Professor of Medicine, Department of Internal Medicine, Campbell University School of Osteopathic Medicine, Fayetteville, North Carolina, USA; Clinical Associate Professor, Department of Family Medicine and Population Health, Virginia Commonwealth University School of Medicine, Richmond, Virginia, USA) and Shambhu Aryal, MD, FCCP (Medical Director, Lung Transplant Program, Medical Director, Comprehensive Sarcoidosis Center, Inova Advanced Lung Disease and Lung Transplant Programs, Inova Heart and Vascular Institute, Falls Church, Virginia, USA)*

In series: *Pulmonary and Respiratory Diseases and Disorders*

Publication Date: 04/11/2022

325 pp.

Hardcover: 978-1-68507-681-8. $230.00

e-book: 978-1-68507-782-2. $230.00
Sarcoidosis is a challenging condition. First identified in 1877, it has been considered a rare condition. However, the lifetime risk of sarcoidosis is about 2.5% for African Americans and almost 1% for Caucasians making it a rather common occurrence. Despite that, it remains an elusive condition with no obvious etiology and is often a challenge to treat. The disease is well known to cause a multisystem involvement but the general pulmonologist is often left carrying the bag as the “sarcoidologist” because it affects the lungs in over 90% of patients. However, managing multisystem sarcoidosis is a tough task and very few resources are available to help the practitioner taking care of the patient with sarcoidosis.

As pulmonologists with deep interest in sarcoidosis, we felt that a handbook with organ based manifestations of sarcoid would be a very helpful resource for our colleagues. As a result, this book came into being. It is a clinical handbook that bridges the gap between short reviews on sarcoidosis and detailed monographs regarding all aspects of the disease and should come in handy to the practicing clinician. It is a result of the hard work of several outstanding clinicians well-known in the world of sarcoidosis who have put a lot of hours into their work. We deeply acknowledge their time and effort.

**Dendritic Cell Biology as an Immune Dysfunction in Neoplasia**

*Lawrence M. Agius (Department of Pathology (Retired), Mater Dei Hospital, University of Malta Medical School, Msida, Malta)*

In series: *Cell Biology Research Progress*
Publication Date: 01/06/2022
188 pp.
Softcover: 978-1-68507-486-9. $95.00
e-book: 978-1-68507-537-8. $95.00

This monograph deals with the susceptibility issues in the development of an effective response to antigenicity as presented by emerging or established neoplastic lesions. An attempt has been made to present critical views of the dysfunction of carcinogenesis in terms of evolving immune responses in terms of recruitment of dendritic cell biology. It is within such conceptual framework that autoimmunity presents an attractive response to neoplasia in terms that allow for access to the malignant transformation process. It is significant to potentiate the immune responses that involve the integral immune dimensions that characterize and recharacterize the dynamics of turnover of dendritic cells as the most powerful agents in presentation of neoantigenicity as provided by tumor cell proliferation and spread within the body.

The performance of staged dimensions in antigen exposure by tumor cells is critical to the presentation of tumor cells as brought forward by the proposed dynamics of an interface between tumor cells and the tumor microenvironment in the realization of an extensive autoimmune response with the realization of performance exposure of the antigenicity as a biologic agent in its own right.

This book is aimed to cancer researchers, pathologists, and immunologists with a strong interest in carcinogenesis and cancer cell progression as dictated by proposed immune response to tumor antigenicity.

**Mast Cells and their Role in Health and Disease**

*Ana I. Faustino, PhD*

*Paula A. Oliveira, PhD*

In series: *Immunology and Immune System Disorders*
Publication Date: 02/17/2022
129 pp.
Softcover: 978-1-68507-628-3. $82.00
e-book: 978-1-68507-690-0. $82.00

This book presents a review concerning the role of mast cells in health and disease. Mast cells were first described by Paul Erlich in his PhD thesis and are considered the remaining cells of an ancient immune system. Indeed, they are placed in common portals of infection, like the urinary and respiratory tracts.

The first chapter addresses the role of mast cells in cancer development and progression. Chapters II and III address the role of mast cells in periodontal disease and oral lichen planus, respectively. The role of brain mast cells in neuroinflammation and cognition was described in Chapter IV.

Together, these chapters provide the readers an overview of the role of mast cells in different conditions. Since the information presented in this book was obtained from years of works of expertise in the field, we hope that it will be useful for those researchers aiming to better understand the role of mast cells in different conditions.
The Innate Immune System in Health and Disease: From the Lab Bench Work to Its Clinical Implications. Volume 1

Jorge Morales-Montor (Departamento de Inmunología, Instituto de Investigaciones Biomédicas, Universidad Nacional Autónoma de México, Ciudad de México, México)

In series: Immunology and Immune System Disorders

Publication Date: 02/02/2022

319 pp.
Hardcover: 978-1-68507-507-1. $230.00
e-book: 978-1-68507-644-3. $230.00

The aim of this book, The Innate Immune System in Health and Disease: From the Lab Bench Work to Its Clinical Implications. Volume 1, is to provide updated information to scientists and clinicians that is valuable in their quest to gather information, carry out new investigations, and develop novel drugs that are more effective and do not cause adverse effects targeting the innate immune system. This book is of high priority to people interested in an update on innate immunity. Volume 1 examines the participation of innate immunity in diseases such as infections by viruses, cancer, or parasites. Specifically, this volume discusses innate immunity as it relates to chronic HIV infection, type 2 diabetes, and SARS-CoV-2, as well as its relationship with vitamin D. The dual role of neutrophils in cancer development and the plasticity of natural killer cells are investigated. Also, the immune response to infections from helminth and Toxoplasma gondii are described.

The Innate Immune System in Health and Disease: From the Lab Bench Work to Its Clinical Implications. Volume 2 promises to be a must-have book for all people who want to know about the role of the basic functioning of the innate immune system in several diseases of actual relevance to human health.

Key Features:
- Provides basic and clinical evidence based on molecular interactions to address the role of innate immunity in viral diseases, such as HIV and SARS-CoV-2
- Discusses the role of vitamin D as modulator of the immune response during viral infections
- Addresses the immunometabolic interactions in type 2 diabetes and SARS-CoV-2 infection (COVID-19)
- Analyzes the dual role for neutrophils and myeloid-derived suppressor cells in the development of colorectal cancer
- Provides evidence of the plasticity of natural killer cells in cancer and its opportunities for therapy
- Delves into the dual role of neutrophils in cancer development
- Presents updated information on innate immunity against Toxoplasma gondii infection
- Discusses in depth the role of the innate immune response during helminth infections

We hope that readers enjoy this book and that it may be of use to all people involved, from scientists in the lab to clinicians in the field.

The Innate Immune System in Health and Disease: From the Lab Bench Work to Its Clinical Implications. Volume 2

Jorge Morales-Montor (Departamento de Inmunología, Instituto de Investigaciones Biomédicas, Universidad Nacional Autónoma de México, Ciudad de México, México)

In series: Immunology and Immune System Disorders

Publication Date: 02/02/2022

306 pp.
Hardcover: 978-1-68507-510-1. $230.00

The aim of this book, The Innate Immune System in Health and Disease: From the Lab Bench Work to Its Clinical Implications. Volume 2, is to provide updated information to scientists and clinicians that is valuable in their quest to gather information, carry out new investigations, or to check on clinical implications of the innate immune system function during disease. This book is of high priority to people interested in an update on innate immunity. Volume 2 examines topics such as the participation of the innate immune system in homeostasis and in the pathogenesis of chronic inflammatory diseases, the innate immune response and its modulation by sex hormones during chronic lung inflammation, and asthma beyond adaptive immunity. Moreover, the role of TLRs during arthritis rheumatoid onset and development is discussed as well as the modulation of the innate immune system by extracellular vesicles. Furthermore, a novel strategy to interrupt the transmission of diseases by mosquitoes and the modulation of the innate immune system by the endocrine disrupting compounds bisphenol A (BPA) and phthalates are discussed.

The Innate Immune System in Health and Disease: From the Lab Bench Work to Its Clinical Implications. Volume 2 promises to be a must-have book for all people who want to know about the role of the basic functioning of the innate immune system in several diseases of actual relevance to human health.

Key Features:
Medicine and Health

• Provides evidence of the role of innate lymphoid cells in homeostasis and in the pathogenesis of chronic inflammatory diseases
• Discusses the role of the innate immune response and its modulation by sex hormones during chronic lung inflammation
• Analyzes asthma beyond adaptive immunity
• Delves in the onset of arthritis rheumatoid in the gaze of TLRS
• Offers new information regarding modulation of the innate immune system by extracellular vesicles
• Provides information about the enhanced innate immune response as a novel strategy to interrupt the transmission of diseases by mosquitoes
• Includes information on the modulation of the innate immune system by the endocrine disrupting compounds bisphenol A (BPA) and phthalates

We hope that readers enjoy this book and that it may be of use to all people involved, from scientists in the lab to clinicians in the field.

INFECTIOUS DISEASE AND MICROBIOLOGY

Antimicrobial Peptides: Function, Mechanisms of Action and Role in Health and Disease
Paresh Chandra Ray (Professor of Chemistry, Physics and Atmospheric Sciences, Jackson State University, Jackson, MS, USA)
In series: Microbiology Research Advances
Publication Date: 09/09/2021
238 pp.
Hardcover: 978-1-68507-005-2. $160.00
e-book: 978-1-68507-082-3. $160.00

The increasing prevalence of antibiotic-resistant bacteria, known as superbugs, has threatened the field of infectious disease medicine over most of the past century. Antimicrobial peptides, a crucial part of innate immunity that exists in most living organisms, have become a central pillar for the next generation of medical challenges for infectious diseases, cancer, and other health problems. The development of new antimicrobial peptides to tackle ongoing superbug infections, cancer and other diseases is a fast-growing research area for chemistry, medical physics, biological science, food and agricultural science and different disciplines of medicine. This volume discusses the basic science behind potential pharmacological agents, which is necessary to understand how these peptides can be used in our daily lives. The book provides a foundation for a wide variety of antimicrobial peptide-based therapeutic approaches, which is invaluable for established scientists, junior researchers, and students involved in basic science, material science, the medical field and different disciplines of engineering. It contains nine chapters written by world leaders in this area, covering basic science and possible therapeutic applications with immense societal implications. Antimicrobial peptides are an exciting new therapeutic agent with promising applications for a wide variety of illnesses.

COVID-19 by Cases: A Pandemic Review
Sujanthy S. Rajaram, MD, MPH, FACP, FAASM, FCCM (Clinical Professor of Medicine, Sidney Kimmel Medical College of Thomas Jefferson University, Critical Care Medicine, Department of Cardiovascular Medicine, Gagnon Cardiovascular Institute - Morristown Medical Center, Atlantic Health System, Morristown, New Jersey, USA), Anthony Longo, MD (Department of Medicine, Morristown Medical Center, Atlantic Health System, Morristown, New Jersey, USA) and Nicole Burak, MD (Department of Medicine, Morristown Medical Center, Atlantic Health System, Morristown, New Jersey, USA)
In series: New Developments in Medical Research
Publication Date: 10/20/2021
439 pp.
Hardcover: 978-1-68507-099-1. $270.00
e-book: 978-1-68507-262-9. $270.00
A clinical account written by front-line providers, COVID-19 by Cases is the first comprehensive review text on COVID-19. As such, the inventive format features a case-based and systems-based review of observations, clinical knowledge, basic science, ethics, and personal experiences during the COVID-19 pandemic. With each systems-based chapter encompassing a case report, literature review, and discussion, COVID-19 by Cases is intended for a broad audience, including clinical providers, clinical educators, and students. It also serves as a standalone account to preserve this unique time in human history. COVID-19 by Cases is a multi-institutional effort with input from hospitalists, outpatient physicians, specialists, residents, nurses, pharmacists, clinical educators, and students.

COVID-19 Contracting: Opportunities, Actions and Reimbursements

Eric Neudorf
In series: Infectious Diseases and Microbiology
Publication Date: 03/04/2022
203 pp.
Hardcover: 978-1-68507-710-5, $160.00
e-book: 978-1-68507-733-4, $160.00
In March 2020, Congress passed the CARES Act as part of the federal response to COVID-19. The act had certain provisions for federal contracting, including providing additional flexibilities. Contracting plays a critical role in the pandemic response as agencies obligate billions of dollars for goods and services. The act also included a provision to review federal contracting in response to COVID-19. This book examines, among other objectives, COVID-19 contract obligations and characteristics of vendors, contracting challenges, including with agency assessments of vendors, and whether lessons learned reflect those challenges.

Diseases Transmitted by Ticks

Hacer İşler, MD (Microbiology Specialist, Health Sciences University, Samsun Eğitim ve Araştırma Hastanesi, İlkadım, Turkey) and Metin Özdemir, MD (Department of Medical Microbiology, Samsun Gazi State Hospital, Samsun, Turkey)
In series: Infectious Diseases and Microbiology
Publication Date: 12/16/2021
388 pp.
Hardcover: 978-1-68507-359-6, $230.00
e-book: 978-1-68507-383-1, $230.00
The incidence of tick-borne diseases affecting humans has increased with increased travel and exposure to exotic environments. Ticks are important as vectors of European tick-borne encephalitis, Russian summer-spring encephalitis, and Lyme disease in America, Europe, and Asia. No struggle methods used to date have provided complete eradication of ticks and reduced the risk of tick-borne disease transmission. Ticks are still the most important vectors in the transmission of many infectious diseases. The primarily transmitted diseases to humans from ticks can be listed as Crimean Congo Hemorrhagic Fever (CCHF), Lyme disease, Q fever, Tick-borne encephalitis, Mediterranean spotted fever, Monocytic ehrlichiosis, Granulocytic ehrlichiosis, Babesiosis. Besides causing severe health problems in humans, ticks also create significant economic losses on livestock. This group of diseases is more common than thought and can become chronic or show a severe course and result in death without being diagnosed.

Tick-borne diseases are incredibly diverse, both biologically and clinically, and symptoms are often non-specific, making recognition and appropriate treatment difficult. We aimed to examine the various disease syndromes in detail from a clinical perspective and support the medical literature for these diseases, which generally occur outside the clinicians' practice field. In the book chapters, the expected risks of the patients, the epidemiology and pathogenesis of the disease, and necessary clinical applications in treatment and follow-up processes will be discussed.

We aimed to draw attention to the issues about tick-borne diseases in the light of recent developments and cases. As a ready-made resource, this book will cover basic and recent literature information, which will be very useful for students and professionals in human and veterinary medicine, public health, medical entomology, acarology, and ecology.
Impacts and Implications of COVID-19: An Analytical and Empirical Study

Anand Sharma (Assistant Professor, Department of Computer Science and Engineering, Mody University of Science and Technology, Lakshmangarh, Rajasthan, India), Prateek Agrawal (Associate Professor and HOD- Intelligent Systems Discipline of Computer Science & Engineering, Lovely Professional University, Punjab, India; Post Doctoral Researcher, Institute of Information Technology, University of Klagenfurt, Austria), Vishu Madaan (Assistant Professor, School of Computer Science Engineering, Lovely Professional University, Punjab, India) and Anuj Agarwal (COO, Taifa Gas Tanzania Ltd., Tanzania)

In series: Infectious Diseases and Microbiology

Impacts and Implications of COVID-19: An Analytical and Empirical Study describes the most recent research developments regarding COVID-19. This book includes a wide range of interdisciplinary submissions that address the latest findings regarding a wide variety of psychological, social, managerial, and technological issues for fighting COVID-19.

Chapter One discusses how machine learning applies to prediction, forecasting, screening, contact tracing, treatment, medication and the drug or vaccine invention process in connection with COVID-19. Chapter Two deals with immunomodulatory therapy for clinical management of COVID-19 patients. Chapter Three describes the importance of social distancing and the development of a tool to detect social distancing. Chapter Four discusses the impact of COVID-19 on the education sector, and Chapter Five focuses on the impacts of COVID-19 on employment, e-commerce, and e-pharmacies. Chapter Six gives an insight into the policies regarding COVID-19 in India, and Chapter Seven compares vaccine candidates based on their status in trial phases, route of administration, dosage, efficacy, and safety. Chapter Eight explores how the pandemic has impacted human communication and relationships, as people have been forced to interact in the digital space rather than the physical one. Chapter Nine describes the urgent need to devise sustainable and effective strategies to mitigate the problems relating to shortages of labor and equipment in the agricultural sector due to the pandemic. Finally, Chapter Ten describes the role of physical therapy in the recovery of COVID-19 patients.

Pathogenic Bacteria: Pathogenesis, Virulence Factors and Antibacterial Treatment Strategies

Keith D. Watts

In series: Microbiology Research Advances

Pathogenic Bacteria: Pathogenesis, Virulence Factors and Antibacterial Treatment Strategies

Keith D. Watts

Publication Date: 12/16/2021
171 pp.
Softcover: 978-1-68507-422-7. $95.00
e-book: 978-1-68507-424-1. $95.00

Although most forms of bacteria are harmless, pathogenic bacteria can cause disease and as such these microorganisms warrant scientific attention. Chapter One describes the virulence problem caused by extracellular polymeric substances and antibacterial compounds capable of inhibiting their production, biofilm formation, and bacterial pathogenicity. Chapter Two provides an overview of biophysical techniques that can validate targets of phytochemicals with anti-virulence properties that can help elucidate their mode of action. Chapter Three discusses terpenes’ anti-virulence modes of action, inhibition of biofilm, disruption of the cell wall and bacterial membrane, intercellular leakage, interruption of nucleic acids transcription, and interference with the quorum sensing signaling process. Chapter Four investigates the anti-pathogenic potential of essential oil from the plant asafoetida obtained through microwave-assisted extraction method. Finally, Chapter Five deals with the effect of audible sound waves on bacteria.
The Aviation Industry and COVID-19

Stefan Schneider

In series: Infectious Diseases and Microbiology
Publication Date: 02/25/2022
192 pp.
Hardcover: 978-1-68507-712-9, $160.00
e-book: 978-1-68507-729-7, $160.00

International flight restrictions, local stay-at-home orders, and a general fear of contracting and spreading COVID-19 through air travel had a sudden and profound effect on the U.S. aviation industry. According to Department of Transportation (DOT) statistics, passenger traffic in April 2020 was 96 percent lower system-wide than April 2019, and remained 60 percent below 2019.

This book examines the immediate effects of the COVID-19 pandemic on businesses across the aviation industry; actions those businesses took in response; actions the FAA took to help the industry respond to the pandemic; and the outlook for industry recovery, among other issues.

Various Methods and Novel Techniques: Rapid Molecular Detection of Human, Plant, Genetic, and Microbial Infectious Diseases, Pathogenic Bacteria, and Organisms

Wenli Sun (Associate Professor, Biotechnology Research Institute, Chinese Academy of Agricultural Sciences, Beijing, China) and Mohamad Hesam Shahrababian (Senior Researcher, Biotechnology Research Institute, Chinese Academy of Agricultural Sciences, Beijing, China)

In series: Medical Procedures, Testing and Technology
Publication Date: 03/30/2022
87 pp.
Softcover: 978-1-68507-721-1, $82.00
e-book: 978-1-68507-808-9, $82.00

In this book, various methods for detection of infectious diseases in humans and other organisms are described. These include polymerase chain reaction (PCR) technology, loop-mediated isothermal amplification (LAMP), and recombinase polymerase amplification (RPA). Each method presents different strengths and weaknesses and varies by sensitivity, specificity, and rapidity, among other characteristics. These techniques can be used for the detection of pathogens like SARS-CoV, MERS-CoV, SARS-CoV-2, influenza, lymphocystis disease virus, swine acute diarrhea syndrome coronavirus, swine vesicular disease virus, classical swine fever virus, Marek’s disease virus, human papillomaviruses, infectious bronchitis virus, Newcastle disease virus, sacbrood virus, beak and feather disease virus, foot-and-mouth disease virus, bovine herpesvirus-1, and more. Other applications of these methods include molecular diagnosis of cancer, identification of genetically modified organisms, and detection of food adulteration.

Parasitology

Toxoplasma gondii: Prevalence and Role in Health and Disease

Erica S. Martins-Duarte, PhD (Adjunct Professor, Department of Parasitology, Universidade Federal de Minas Gerais, MG Brazil) and Daniel Adesse, PhD (Associate Researcher, Oswaldo Cruz Institute, Oswaldo Cruz Foundation (Fiocruz), Rio de Janeiro Brazil)

In series: Parasites and Parasitic Diseases
Publication Date: 11/11/2021
346 pp.
Hardcover: 978-1-68507-229-2, $230.00
e-book: 978-1-68507-291-9, $230.00

Toxoplasma gondii is a globally spread protozoan parasite responsible for causing toxoplasmosis. Infection by T. gondii shows high seroprevalence in humans, especially in South America. Written by specialists, this book brings important contributions and information on parasite biology, including its life cycle, ultrastructural features of tachyzoite, bradyzoite and their main specific organelles, mechanisms of host cell invasion, parasite replication and epigenetics regulation. Moreover, the book will encompass
mechanisms of pathogenesis and host immune response to the infection, including purinergic signaling, and mechanisms of immune evasion by the parasite. Finally, this book also addresses relevant aspects of disease, information about the current chemotherapy of toxoplasmosis and perspectives for a future chronic disease treatment, epidemiology, and methods for visualization of the parasite by optical and electron microscopy.

**INTELLECTUAL DISABILITIES**

Chronic Disease and Disability: Neurodevelopmental Disabilities
Donald E. Greydanus, MD, Dr HC (ATHENS) (Professor and Founding Chair, Department of Pediatric and Adolescent Medicine, Western Michigan University Homer Stryker MD School of Medicine, Kalamazoo, MI), Kathryn White, MA (Division of Psychology, Western Michigan University, Homer Stryker MD School of Medicine, Kalamazoo, MI, USA), Dilip R. Patel MD, MPH, MBA (Professor & Chair, Department of Pediatric & Adolescent Medicine, Western Michigan University, Homer Stryker MD School of Medicine, Kalamazoo, MI) and Joav Merrick MD, MMedSci, DMSc (Professor of Pediatrics at the Division of Pediatrics, Hadassah Hebrew University Medical Center, Mt Scopus Campus, Jerusalem, Israel, Kentucky Children’s Hospital, University of Kentucky, Lexington, United States and Professor of Public Health at the Center for Healthy Development, School of Public Health, Georgia State University, Atlanta, United States, the former Medical Director of the Division for Intellectual and Developmental Disabilities, Ministry of Social Affairs and Social Services, Jerusalem and the Founder and Director of the National Institute of Child Health and Human Development in Israel)

In series: Health and Human Development
Publication Date: 02/02/2022
255 pp.
Hardcover: 978-1-68507-492-0. $195.00

Neurodevelopmental disabilities are a diverse group of chronic disorders that begin at any time during the development process – from conception through completion of adolescence. The impact of such disabilities last throughout an individual’s lifetime. The underlying basis for these disorders lies in fundamental deficits in the developing brain due to genetic, prenatal, perinatal, metabolic, and other factors. Developmental disabilities affect 17% of individuals younger than 18 years of age in the United States. Prevention along with early recognition and intervention is critically important to mitigate the adverse impact of developmental disabilities, both at an individual level and at societal level. Children and adults with disabilities need routine preventive and acute medical care and access to services similar to those who do not have such disabilities. The quality of life and health outcomes for individuals with disabilities largely depend on the access and adequacy of community-based support systems. With appropriate support, most individuals with disability can maintain relative independence and productive life. In this book we have gathered some recent selected topics on neurodevelopmental disabilities which we hope will be of interest for the reader.
ELISA: Advances in Research and Applications

Jose Ma. M. Angeles, PhD (Editor and Associate Professor, Department of Parasitology, College of Public Health, University of the Philippines Manila, Manila, Philippines)

In series: Medical Procedures, Testing and Technology
Publication Date: 01/21/2022
242 pp.
Hardcover: 978-1-68507-500-2. $160.00
e-book: 978-1-68507-594-1. $160.00

In September 1971, Swiss scientists Eva Engvall and Peter Perlmann published a communication in the journal Immunochemistry on enzyme-linked immunosorbent assay (ELISA) as a quantitative assay of immunoglobulin G. They have modified radioimmunoassay (RIA) by replacing the radioactive iodine with enzymes and used in determining the levels of IgG in rabbit serum.

Fifty years after, ELISA is still the most commonly used technique in measuring peptides, proteins, antibodies, antigens, and hormones in various samples. This plate-based assay is a very versatile laboratory technique and offers many advantages to laboratory scientists and researchers such as generating quick results, simple protocols, high sensitivity, being easily automated and being convenient to perform. Its application in the diagnosis of different infectious diseases has shown the unquestionable importance of this technique even in the modern world.

In this book, the usefulness of ELISA in the control of different parasitic diseases including schistosomiasis, babesiosis, and malaria will be discussed. There is also a chapter featuring an extensive discussion on the use of ELISA in functional food development and regulation. And finally, the last two chapters will present advanced techniques inspired by ELISA including a rapid immunoassay for detecting paralytic shellfish poisoning toxins and the enzyme-linked aptamer assay.

May this book provide significant information regarding the current advances and applications of ELISA and possibly inspire its use in another 50 years.

Issues in Kidney Disease – Acute Kidney Injury

Stephen Z. Fadem, MD, FACP, FASN (Selzman Institute for Kidney Health, Section of Nephrology and Michael E. DeBakey Veterans Affairs Medical Center, Baylor College of Medicine, Houston, TX, USA; Kidney Associates, Houston, TX, USA) and Ahmed Arslan Yousef (Selzman Institute for Kidney Health, Section of Nephrology, Department of Medicine, and Division of Abdominal Transplantation, Department of Surgery, Baylor College of Medicine, Houston, TX, USA)

In series: Issues in Kidney Disease
Publication Date: 10/12/2021
368 pp.
Hardcover: 978-1-68507-002-1. $145.00
e-book: 978-1-68507-125-7. $145.00

Issues in Kidney Disease–Acute Kidney Injury is a collection of nineteen independent chapters written by internationally renowned authors, covering a wide range of topics, including the basic concepts and management of acute kidney injury (AKI), contrast induced nephropathy, acute tubular necrosis, interstitial nephritis, glomerulonephritis, obstructive uropathy, COVID-19, cardiorenal and hepatorenal syndrome. This book also addresses kidney injury in specialized populations like pregnant patients and patients with kidney transplant. A whole chapter is also dedicated to imaging in patients with kidney injury.

This book will appeal to renal fellows, nephrologists, and practicing physicians involved in the care of AKI patients in critical care units and medical floors, including all those interested in the advances and innovations undergoing in this field. It brings timely and updated reviews and addresses trends, challenges, and controversies of kidney injury.
Issues in Kidney Disease – Chronic Kidney Disease

Stephen Z. Fadem, MD, FACP, FASN (Selzman Institute for Kidney Health, Section of Nephrology and Michael E. DeBakey Veterans Affairs Medical Center, Baylor College of Medicine, Houston, TX, USA; Kidney Associates, Houston, TX, USA) and Samaya Javed Anumudu (Baylor College of Medicine, Medicine-Nephrology, Houston, TX, USA)

In series: Issues in Kidney Disease
Publication Date: 10/12/2021
418 pp.
Hardcover: 978-1-68507-001-4. $145.00
e-book: 978-1-68507-124-0. $145.00

Issues in Kidney Disease – Chronic Kidney Disease (CKD) is a collection of 17 detailed chapters written by world leaders and experts in nephrology in order to provide a comprehensive review of kidney disease using evidence-based recommendations and guidelines. This book starts with an excellent introduction and classification of CKD and progresses into various important aspects of CKD care including prevention, diabetes, hypertension, acid-base disturbances, genetic and age considerations, glomerulonephritis, interstitial nephritis, aging, as well as considerations for patients in pregnancy and with malignancy. This book will appeal to trainees and practicing clinicians in internal and family medicine, as well as nephrology, who would like current and practical clinical knowledge of chronic kidney disease to help improve the lives of patients with this condition.

Issues in Kidney Disease – Dialysis

Stephen Z. Fadem, MD, FACP, FASN (Selzman Institute for Kidney Health, Section of Nephrology and Michael E. DeBakey Veterans Affairs Medical Center, Baylor College of Medicine, Houston, TX, USA; Kidney Associates, Houston, TX, USA) and José A. Moura-Neto, MD, MS, MBA, FASN (Department of Internal Medicine, Bahiana School of Medicine and Public Health, Salvador, Bahia, Brazil)

In series: Issues in Kidney Disease
Publication Date: 09/17/2021
366 pp.
Hardcover: 978-1-68507-000-7. $145.00
e-book: 978-1-68507-123-3. $145.00

Issues in Kidney Disease – Dialysis is a collection of nineteen independent chapters written by internationally renowned authors, covering a wide range of topics, from the history and milestones to the future, in different renal replacement therapy modalities, such as hemodialysis, online hemodiafiltration, and peritoneal dialysis. This book will appeal to renal fellows, nephrologists, and physicians involved with chronic kidney disease patients on maintenance dialysis, including all those interested in the advances and challenges still facing medicine. It brings timely and updated reviews and addresses trends, challenges, and controversies of dialysis therapies.

Essentials of Movement Disorders - A Problem-Based Approach

Sujith Ovallath, MBBS, MD (Med), DNB (Neurology), DM (Neurology) (Professor, Clinical Fellowship in Movement Disorders, University of British Columbia, Canada; Director, James Parkinson’s Movement Disorder Research Centre, Kannur Medical College; Visiting DBS Consultant Aster MIMS Calicut, Kerala, India)

In series: Neurology - Laboratory and Clinical Research Developments
Publication Date: 03/04/2022
435 pp.
This is a clinical and practical oriented textbook that will enable clinicians who have less expertise in the field of movement disorders to make a reasonably accurate diagnosis through a problem-oriented approach. This textbook includes a selective collection of topics that are relevant to practicing neurologists. Some of the best experts in the field of movement disorders from around the world have contributed to this book. Long discussions on pathology and genetics are limited in order to make the book simple, easy to comprehend, and practically useful for the day-to-day management of movement disorders.
pyrimidine derivatives on changes in mitochondrial function in rats under conditions of permanent cerebral ischemia. Chapter Four investigates the relationship between PTSD and the brain’s spatio-temporal dynamics through an experimental study on mice. Chapter Five provides an overview on studies to treat social cognition disturbances in mental disorders such as schizophrenia with transcranial direct current stimulation and discusses its neurobiological mechanisms. Finally, Chapter Six deals with the role of nucleosome ensembles in the control of the visual apparatus as a neuro controller in the operative work of the brain as a whole.

**Neuroendoscopic Procedures and Challenges**

*Soner Duru, MD (Professor of Neurosurgery, Cincinnati, OH, USA)*

In series: *Neurosurgery Research Progress*

Publication Date: 09/17/2021

166 pp.

Softcover: 978-1-68507-092-2. $95.00

e-book: 978-1-68507-155-4. $95.00

In 1910, L’Espinasse performed the first neurosurgical endoscopic procedure for choroid plexus electrocoagulation in an infant with hydrocephalus, by use of a cystoscope. One infant was successfully treated. Walter Dandy used an endoscope to perform an unsuccessful choroid plexectomy in 1922. The next year, Mixter, using a ureteroscope, performed the first successful endoscopic third ventriculostomy in a 9-month-old girl with obstructive hydrocephalus. In 1935, Scarff reported his initial results about endoscopic third ventriculostomy using a novel endoscope. His ventriculoscope had an irrigation system to prevent intraventricular collapse and was equipped with a flexible unipolar probe. In 1952, Nulsen and Spitz began the era of ventricular cerebrospinal fluid (CSF) shunting, marking the end of the initial era of neuroendoscopy. This dark period for neuroendoscopy continued until 1970s. However, in this period image capabilities of endoscopes improved with technological developments. In 1978, Vries demonstrated that ETVs were technically feasible using a fiberoptic endoscope to treat patients with hydrocephalus. In 1990, Jones and colleagues described a 50% shunt-free success rate for ETV in 24 patients with various forms of hydrocephalus. Four years later, the same group reported an improved success rate of 61% in a series of 103 patients. Currently, ETV is primarily used to treat obstructive hydrocephalus due to benign aqueductal stenosis or compressive periaqueductal mass lesions. Modern shunt-free success rates range from 80 to 95%.

The field of neuroendoscopy has extended beyond ventricular procedures. The endoscope is currently used for all types of neurosurgically treatable diseases such as obstructive hydrocephalus, various intraventricular lesions, hypothalamic hamartomas, craniosynostosis, skull base tumors, and spinal lesions and rare subtypes of hydrocephalus.

With the evolution of surgical techniques, endoscopy has emerged as a suitable alternative to many instances of more invasive methods. Surgeons using a neuroendoscope can perform many complex operations through very small incisions. Nowadays, neurosurgeons prefer neuroendoscopic surgery for many different lesions because of less damage to healthy tissue, low complication rate and excellent results. Neuroendoscopic surgery is a specialty within neurosurgery and requires a neurosurgeon to undergo specialized training.

In this book, we focused on neuroendoscopic procedures and challenges. We have created this book with the hope that it can be a guide for neurosurgeons who are interested in neuroendoscopic interventions.

**Psychobiological Principles of the Memory Process**

*Ignacio González-Burgos, PhD (Senior Researcher, Laboratorio “Burgos” de Investigaciones, Psicobiológicas, Zapopan, Jalisco, México)*

In series: *Neuroscience Research Progress*

Publication Date: 03/30/2022

221 pp.

Hardcover: 978-1-68507-661-0. $160.00

e-book: 978-1-68507-776-1. $160.00

Memory is a cognitive process that has been addressed widely in scientific study. In fact, the number of original research articles that have attempted to characterize memory from different approaches is so vast that integrating the knowledge derived from this extensive body of scientific research makes formal compilations, such as the one offered to the reader in this book, necessary.

Psychobiological Principles of the Memory Process is a particularly useful book by virtue of the fact that it addresses genetic, molecular, cellular, and systematic aspects related to the organization and performance of memory, under both normal conditions and those associated with pathology, and because it examines clinical and experimental approaches throughout development.

The 7 chapters that make up the book were written with a homogeneous structure and in clear, concise scientific language that is adequate for specialists and science students, but is also accessible to non-specialized, or amateur, neuroscience readers.
Rett Syndrome (RTT): From Diagnosis to Treatment
Fabrizio Stasolla (Assistant Professor, Developmental Psychology, "Giustino Fortunato" University of Benevento, Benevento, Italy)
In series: Health Psychology Research Focus
Publication Date: 09/17/2021
135 pp.
Softcover: 978-1-68507-070-0. $82.00
e-book: 978-1-68507-133-2. $82.00

Rett syndrome, a rare genetic disease caused by mutations of the MECP2 gene, includes severe to profound developmental impairments. Communicative, intellectual, and motor disabilities are usually embedded. Children with Rett syndrome are individuals with multiple difficulties. Caregivers, families and professionals face to serious daily challenges due to clinical conditions determined by Rett syndrome. Accordingly, traditional interventions may not be adequate. Customized programs based on cognitive-behavioral approaches and assistive technology setups are highly warranted.

The current book includes the newest empirical contributions to tackle functional consequences of Rett syndrome. Sleep and pain disorders were targeted in Chapter One. A cross-disciplinary investigation to enhance active participation and constructive engagement of children with Rett syndrome was detailed in Chapter Two. The importance of functional activities was emphasized in Chapter Three. Communication guidelines to support communication skills of individuals with Rett syndrome were critically discussed in Chapter Four. The relevance of music and music therapy to promote positive participation was argued in Chapter Five. A selective review on the use of assistive technology-based programs in individuals with Rett syndrome was provided in Chapter Six. A case report to help locomotion fluency of an adolescent with Rett syndrome through the use of microswitches and contingent positive stimulation was presented in Chapter Seven.

The book was supported by illustrative examples described by the chapters’ contributors and their professional experience. Readers may find helpful insights within each edited chapter. Caregivers, families, and professionals may have a practical guide to everyday settings or contexts. Clarity and readability for a large audience are undoubtedly strengths and advantages of the current volume. Although technical terminology was used throughout, both future research and practice can widely find meaningful tips and tangible suggestions to tackle daily barriers and/or obstacles in individuals with Rett syndrome and severe to profound developmental delays.

The Dentate Gyrus: Structure, Functions and Health Implications
Feng-Ru Tang, PhD, MD(Radiation Physiology Lab, Singapore Nuclear Research and Safety Initiative, National University of Singapore, Singapore)
In series: Neuroscience Research Progress
Publication Date: 10/22/2021
359 pp.
Hardcover: 978-1-68507-212-4. $230.00
e-book: 978-1-68507-240-7. $230.00

The dentate gyrus (DG) is one of the most sensitive regions to various brain insults due to the occurrence of neurogenesis in its subgranular zone. Thus, it may serve as a brain sensor to radiation exposure, chemical and biological toxins, alcohol abuse, smoking, drug treatments, hormone imbalances, stress, pain, hypoxia, brain trauma, malnutrition and aging. DG is also involved in the pathogenesis of multiple neurological and neuropsychological disorders including intractable temporal lobe epilepsy (TLE), Alzheimer’s disease (AD), major depressive disorder (MDD), post-traumatic stress disorder (PTSD), and schizophrenia.

Over decades of research, our understanding regarding the function and physiology of the DG is ever-changing. While it is commonly believed that the dentate granule cells are primarily responsible for executing higher brain functions such as learning and memory, there is increasing evidence demonstrating that the glial cells, particularly microglia, astrocytes and oligodendrocytes, are also involved in memory formation. Therefore, a book that systematically reviews DG structure, function and health implications is needed to update clinicians and researchers with state-of-the-art knowledge.

In the first three chapters of this book, the recent progresses in the study of DG development with relevant molecular mechanisms, the cytoarchitectonics of DG with laminar and sublaminar distribution of different types of neurons and glial cells, as well as afferent and efferent of the DG and their neurophysiological roles will be described respectively. In Chapters 4 and 5, DG as a brain sensor to radiation exposure, and pre- and post-natal radiation-induced DG damage and cognitive impairment will be reviewed accordingly. The involvement of DG in pathogenesis of neurological disorders including TLE and AD will be discussed in Chapters 6 and 7. Finally, in the last two chapters, i.e., Chapters 8 and 9, the roles of DG in the development of neuropsychological disorders including MDD, PTSD and schizophrenia will be presented.
Central Nervous System

GAIRS Checklist For Rett Syndrome: A Complete and Practical Instrument of Assessment and Intervention
Rosa Angela Fabio, PhD (Department of Medicine, University of Messina, Messina, Italy; Airett Centre for Innovation and Research, Verona, Italy), Samantha Giannatiempo (Tice Learning Centre, Piacenza, Italy; Airett Centre for Innovation and Research, Verona, Italy) and Martina Semino (Tice Learning Centre, Piacenza, Italy; Airett Centre for Innovation and Research, Verona, Italy)

In series: Neurology - Laboratory and Clinical Research Developments
Publication Date: 12/03/2021
267 pp.
Hardcover: 978-1-68507-319-0. $195.00
e-book: 978-1-68507-414-2. $195.00

The purpose of the book is to present the GAIRS (Global Assessment and Intervention in Rett Syndrome) Checklist, an easy-to-use, short and accessible tool for every health-care professional in order to assess all the abilities of Rett girls but also to identify patients needing next-step evaluation and treatment. Thanks to the hierarchical order of all the targets assessed in each area of the GAIRS, this checklist can be a useful instrument not only for assessment but also for intervention.

NUTRITION AND DIET

"Oregano" The genus Origanum (Lamiaceae): Taxonomy, Cultivation, Chemistry, and Uses
Tuncay Dirmenci, PhD (Department of Biology Education, Necatibey Education Faculty, Balıkesir University, Balıkesir, Turkey)

In series: Botanical Research and Practices
Publication Date: 12/03/2021
462 pp.
Hardcover: 978-1-68507-315-2. $270.00
e-book: 978-1-68507-387-9. $270.00

Since the first days of community life, human beings have used different plant species for food, fodder, construction materials, fuel, dyes and treatment of diseases, among other applications. The Lamiaceae family is one of the most important plant families that includes many species that people use for various purposes in their daily life. Origanum contains several species commonly used as spices and tea for medicinal purposes, and is one of the most commercially important genera within the family Lamiaceae. In this book, the genus Origanum is introduced in seven chapters in detail. Taxonomy of Origanum is given in the first chapter, pollen characteristics are given in the second chapter, phylogeny, biogeography and character evolution are given in the third chapter, cultivated species, suitable varieties for agriculture, yield and quality characteristics, and harvesting processes are given in the fourth chapter, secondary metabolites (monoterpenes, phenolics, flavonoids, diterpenes etc.) are given in the fifth chapter, biological activities (antimicrobial, antiviral, antifungal, antioxidant, anti-inflammatory and antidiabetic activity) are given in the sixth chapter, and finally the traditional uses and prescriptions, pharmacology, commercial and economic importance of the genus are given in the seventh chapter.
Ginger and its Health Benefits

Isla Kermode

In series: Natural Products and Therapeutics
Publication Date: 02/17/2022
146 pp.
Softcover: 978-1-68507-695-5. $95.00
e-book: 978-1-68507-699-3. $95.00

Ginger is a flowering plant originally from Southeast Asia that is commonly used as a spice and is well-known for its various health benefits. Several of these benefits are described in detail in the four chapters of this book. Chapter One provides knowledge about ginger’s beneficial effects in the treatment of gastrointestinal disorders. Chapter Two highlights the composition and properties of ginger, oral application, and its future scope in dentistry. Chapter Three includes a case study of ginger extraction using microwave-assisted hydrodistillation to compare images from before and after the extraction process of ginger. Lastly, Chapter Four addresses the state of the art of research on the use of ginger in health promotion.

Ginger’s Antimicrobial, Anti-Nausea and Anti-Osteoarthritic Activities

Diana R. Cundell, PhD (Professor of Biology, Pre-Medical Studies Program Director, College of Life Sciences, Thomas Jefferson University, Philadelphia, PA, USA)

In series: Natural Products and Therapeutics
Publication Date: 10/12/2021
284 pp.
Hardcover: 978-1-68507-117-2. $195.00
e-book: 978-1-68507-165-3. $195.00

Ginger has a strong reputation as an anti-nausea agent but our understanding of the roles played by its important biological constituents (gingerols and shogaols) as antimicrobial and anti-inflammatory agents has not been examined in detail. This series of monographs seeks to look first at how and why ginger was used as an ethnomedicine and how this expanded into general antimicrobial studies. One cardinal use for ginger and its constituents may be in the topical management of osteoarthritis. Given the widespread nature of this condition and ginger’s ability to block pain receptors it may join other molecules such as capsaicin in this mode of treatment.

In Vitro Functionality of Probiotics in Foods

Amir M. Mortazavian, PhD (Professor, Department of Food Science and Technology, Faculty of Nutrition Sciences and Food Technology, National Nutrition and Food Technology Research Institute, Shahid Beheshti University of Medical Sciences, Tehran, Iran), Nasim Khorshidian, PhD (Professor, Department of Food Science and Technology, Faculty of Nutrition Sciences and Food Technology, National Nutrition and Food Technology Research Institute, Shahid Beheshti University of Medical Sciences, Tehran, Iran) and Adriano Gomes da Cruz, PhD (Professor, Department of Food, Federal Institute of Education, Science and Technology of Rio de Janeiro (IFRJ), Rio de Janeiro, Brazil)

In series: Food Science and Technology
Publication Date: 12/16/2021
374 pp.
Hardcover: 978-1-68507-193-6. $230.00
e-book: 978-1-68507-322-0. $230.00

Probiotics are a group of live microorganisms (bacteria and/or yeasts) that exert beneficial effects on humans and animals, principally by balancing the intestinal flora. Probiotic microorganisms are mostly of human and animal origin and are normal constituents of their gastrointestinal microflora. However, several probiotics have been isolated from fermented foods. Various curative properties such as immune modulation, reducing serum cholesterol, anti-mutagenic and anti-carcinogenic
effects, alleviation of lactose intolerance symptoms, strengthening defense mechanisms, improvement of intestinal barrier function and improving nutritional value have been attributed to probiotics. Regarding these health benefits, probiotics are considered as substantial ingredients in formulation of healthful and functional food products. This book presents an overview of the probiotic concept and its various functionalities in food products. Several scientific publications have been published in the field of probiotics, but due to the lack of books devoted to in vitro functionality of probiotics, a discrete need was recognized for a book to gather the basic and recent publications in this context while following a simple and applied approach. The chapter contributors of this book are renowned and expert authors in the probiotic field from key institutions around the world. We hope the book will be a useful reference for researchers, product developers, health professionals, students and regulators.

Fruits, Vegetables and Nuts

Grape Pomace in Health and Disease Prevention
Veronica Sanda Chedea, Dr.ing. MSc. (Senior Scientist (CSI), Research Station for Viticulture and Enology, Blaj (SCDVV Blaj), Blaj România)

In series: Nutrition and Diet Research Progress
Publication Date: 12/16/2021
286 pp.
Hardcover: 978-1-68507-409-8, $195.00
e-book: 978-1-68507-425-8, $195.00

Vitis vinifera L. (common grapevine) cultivars are the most widely planted around the world and have a high commercial value for fresh table grapes, dried fruit, and wine. In the winemaking process, besides the free-run and pressed juice obtained from the berries, an important quantity of a byproduct – grape pomace (GP) – is generated. The GP represents on average 20% from the total mass of grapes taken for winemaking and typically consists of skins, stalks, and seeds. The valorization of grape pomace is based on the concept that this matrix has good nutritional and medicinal properties for human health and disease prevention. In this framework, the book aims to provide up-to-date information on grape pomace (GP) and its valorization through medicinal applications.

What to Know about Carotenoids
Robert M. Albert

In series: Nutrition and Diet Research Progress
Publication Date: 09/10/2021
173 pp.
Softcover: 978-1-68507-105-9, $95.00
e-book: 978-1-68507-164-6, $95.00

Carotenoids are the yellow, red, and orange pigments that are produced by various plants, algae, fungi, and bacteria, and can act as antioxidants in humans. In Chapter One of this four-chapter monograph, the authors describe astaxanthin, a reddish carotenoid found in seafood with potent antioxidant characteristics. Chapter Two compiles the challenges encountered in the oral bioavailability of lutein, a xanthophyll carotenoid. Chapter Three reviews the main parameters of the production of yeast carotenoids and the downstream processes to obtain carotenogenic extracts. Chapter Four summarizes known data on total carotenoid contents and chemical diversity of Rosaceae fruits.

Vitamins and Supplements

A Biochemical View of Vitamins
Dorota Bartusik-Aebisher (Professor, Medical College of The University of Rzeszow, Poland) and David Aebisher (Professor, Medical College of The University of Rzeszow, Poland)

In series: Nutrition and Diet Research Progress
Publication Date: 01/21/2022
502 pp.
Hardcover: 978-1-68507-494-4, $310.00
e-book: 978-1-68507-573-6, $310.00
This book is an essential guide to current knowledge and analysis of vitamins. Vitamins are described in detail in medical and biotechnological processes. An analysis of vitamin sources is also provided from physiological point of view. In this book we discuss the historical point of view of the use of vitamins, medicinal plants, and the nature and advances of biopharmacy. This book reports results from experimental and clinical work. It includes data regarding Vitamin B3 in various sources including sesame, avocado, and bananas; Vitamin C in various sources including mango, strawberries, and green salad; Vitamin D in salmon, red meat, and fish oil; Vitamin K in various sources including cucumber, asparagus, and kale; Vitamin E in nuts, cherry, green olives, bell peppers, almonds, avocado, aloe, and olives; Vitamin B5 in various sources including in corn, cauliflower, and sweet potatoes; Vitamin B2 in various sources including raspberries, grapes, and apples; Vitamin B12 in various sources including soybeans and lemon; Vitamin B9 in various sources including broccoli, pineapples, and garlic; Vitamin B6 in various sources including strawberry, lemon, and spinach; Vitamin B1 in various sources including cabbage, pistachio, and almonds; Vitamin B7 in various sources including cauliflowers, bananas, and peanuts; Vitamin B3 in peanuts, nettle, and apricots; and Vitamin C in various sources including lime. The composition and structures of the vitamins are provided. This book provides a current review in the field of vitamins and pharmacology.

A Closer Look at Pregnancy and Childbirth
Louise J. Salgado

This volume includes nine chapters that detail treatment options for health problems associated with pregnancy and childbirth. Chapter One gives an overview of the various technologies and techniques that can be used for prenatal diagnosis. Chapter Two collects the latest evidence on treatment for tubal ectopic pregnancy and highlights the impact that drugs and surgical techniques used for this purpose may have. Chapter Three discusses the problem of human childbirth and the rise of caesarean sections from the viewpoint of evolutionary anthropology. Chapter Four collects the latest evidence on treatment for non-tubal ectopic pregnancy. Chapter Five proposes a risk score model for venous thromboembolism prophylaxis for caesarean sections that balances clinical risks and cost-effectiveness. Chapter Six establishes a differential protocol for placenta praevia based on a model of risk factors to enable food outcomes in caesarean section. Chapter Seven provides a detailed analysis of the various therapeutic options available for ectopic tubal and non-tubal pregnancy, and their indications, contraindications and special considerations during the COVID-19 pandemic and patients affected with this disease. Chapter Eight addresses the impact of ectopic pregnancy and the effects of treatments on patients’ fertility. Finally, Chapter Nine addresses the course of ectopic pregnancy from diagnosis to treatment.

Combination Therapies and their Effectiveness in Breast Cancer Treatment
Manzoor Ahmad Mir, JRF-NET, Ph.D, PGDHE, FRSB

This book highlights up-to-date and novel information with clinical aspects regarding breast cancer. It covers aspects ranging from epidemiology, biology, and molecular classification to currently available and potentially new therapeutic options for breast cancer. It highlights insights into breast cancer at the molecular level with a holistic approach to use combinational strategies involving various therapies for targeting different
pathways involved in this particular malignancy. This book contains a range of latest resources, including schematic illustrations, recent reviews, and information for patients with breast cancer. Various novel biomarkers that are under clinical investigation will also be discussed in this book. Furthermore, the relapse and recurrence after treatment with various therapies presents a great problem, as it develops resistance to which combinational strategy may prove to be a promising approach, and in this book, we have discussed all the aspects of combination therapy in breast cancer. People including students, research scholars, educators, pharmaceutical professionals, clinicians, researchers, practitioners and patients as well as their family members will find this book very much useful.

**Horizons in Cancer Research. Volume 82**

*Hiroto S. Watanabe*

In series: *Horizons in Cancer Research*
Publication Date: 12/03/2021
214 pp.
Hardcover: 978-1-68507-432-6. $250.00
e-book: 978-1-68507-448-7. $250.00

This volume presents some of the latest research surrounding cancer. Chapter One provides a background on the importance of magnesium homeostasis, reviews the pre-clinical and clinical studies using magnesium therapy for cisplatin-induced acute kidney injury, and proposes future investigations to improve the translatability of these results to cancer treatment. Chapter Two discusses various liquid biomarkers of ovarian cancer such as exosomes, cell free DNA, miRNAs, circulating tumor cells, secretory proteins and autoantibodies and their subsequent detection via various nanobiosensors. Chapter Three explores the potential of mouse xenograft models for elucidating resistance mechanisms to cancer therapeutics. Chapter Four summarizes melatonin’s beneficial effects in ovarian follicular cells and oocytes, followed by a comprehensive description of melatonin as an alternative treatment for ovarian cancer. Chapter Five deals with the gene signatures potentially implicated in the development of endometrial cancer. Lastly, Chapter Six updates current understanding of the role of glucocorticoid receptor-mediated actions in triple-negative breast cancer.

**How Plant Flavonoids Affect the Outcome of Hormonal and Biological Cancer Therapies: A Handbook for Doctors and Patients**

*Katrin Sak, PhD (Head of the NGO Praeventio, Tartu, Estonia)*

In series: *Cancer Etiology, Diagnosis and Treatments*
Publication Date: 03/04/2022
311 pp.
Hardcover: 978-1-68507-608-5. $230.00
e-book: 978-1-68507-698-6. $230.00

Cancer is a steadily increasing public health concern and severe socio-economic burden all over the world. Based on the current statistics of the WHO, almost 10 million people lost their lives due to malignant disorders in 2020, implying that one in every six deaths is due to cancer. In parallel, the global population of cancer survivors is also growing, propelled by advances in early detection, diagnosis and treatment methods, but also by demographic aging. More and more cancer patients today decide to use dietary supplements and herbal products in order to enhance their overall health, delay the progression of disease, augment the outcome of conventional therapies, mitigate diagnosis-related depression and anxiety, and alleviate drug-associated side effects, doing it mostly unbeknownst to their health care providers. Such over-the-counter supplements usually contain diverse flavonoids, such as catechins from green tea extracts, isoflavones from soy products, flavanones from citrus oils or silibinin from milk thistle seeds, just to name a few. A variety of flavonoid-rich products are often consumed concurrently with standard cancer therapies, without anticipating and understanding the potential interactions between plant-derived bioactive flavonoids and clinically used anticancer drugs. In this book, diverse effects of these polyphenolic phytochemicals on hormonal and targeted biological cancer therapies are covered, being a reasoned follow-up to the two previous books *Plant Flavonoids Affect Cancer Chemotherapeutic Efficacy: A Handbook for Doctors and Patients* (2019) and *Dietary Flavonoids Interfere with Cancer Radiotherapy* (2019). Besides naturally occurring flavonoids, the impact of flavonoid-rich plant extracts as well as semisynthetic derivatives on anticancer activities of co-administered hormonal and targeted drugs are thoroughly discussed, and some indicative recommendations to patients undergoing hormonal cancer therapies or targeted biological cancer therapies are provided.
Meningiomas: From Diagnosis to Treatment
Richard A. Prayson, MD, MEd (Department of Anatomic Pathology, Cleveland Clinic, Cleveland, Ohio, USA)
In series: Rare Disorders Research Progress
Publication Date: 03/30/2022
183 pp.
Softcover: 978-1-68507-715-0. $95.00
e-book: 978-1-68507-807-2. $95.00

Meningiomas are among the most common primary tumors of the central neoplasm and are probably the most common primary nonglial tumor type. They are also the most common of the extra-axial tumors of the brain. Understanding of meningiomas and their classification, grading and molecular biology and genetics has evolved significantly over the past few decades. Environmental and genetic factors have been implicated in the development of these neoplasms. They arise from meningothelial (arachnoidal cap cells), typically situated in the meninges, near the dura. However, these cells can be found in other locations less commonly which accounts for the development of meningiomas in unusual locations (sometimes outside the central nervous system). Although the majority of these tumors are considered low grade neoplasms, classification and grading schemas have identified subtypes of meningiomas that are associated with more aggressive behavior or have unusual presentations. The fourteen chapters in this book address some of these various aspects of this diverse group of tumors.

Mesothelioma: Risk Factors, Treatment and Prognosis
Albert K. Martin
In series: Cancer Etiology, Diagnosis and Treatments
Publication Date: 09/10/2021
175 pp.
Softcover: 978-1-68507-075-5. $95.00
e-book: 978-1-68507-134-9. $95.00

Mesothelioma is a type of cancer in which tumors form in the tissue that lines the lungs, heart, stomach, and other organs. While mesothelioma is relatively rare, it represents a serious health crisis as the disease is aggressive and often fatal. This book includes five chapters that detail the treatment and prognosis of the disease as well as the factors that put a person at risk for developing mesothelioma. Chapter One describes the most promising emerging immunotherapy combinations for the treatment of malignant pleural mesothelioma, discussing the biological rational underlying their development as well as the issues surrounding their clinical development. Chapter Two provides an overview of malignant mesothelioma, describing the history of its diagnosis and treatment as well as the role that asbestos exposure and other factors play in its development. Chapter Three revises the role of the main inflammatory and immunological markers as prognostic indicators in malignant pleural mesothelioma and discusses the surgical effects on immune response against cancer. Chapter Four explores the main cancer markers utilized for mesothelioma diagnosis as well as the new developments in the field. Lastly, Chapter Five examines the various surgical options available for removing pleural tumors.

Ophthalmology
Keep It Single and Simple – Binocular Vision Testing Made Easy
Jameel Rizwana Hussaindeen, M.Phil. Opt, Ph.D., FCOD-I, FAAO
(HOD – Binocular vision/ Vision therapy clinic, Sankara Nethralaya, Unit of Medical Research Foundation, Chennai, India; Clinical Diplomate – Binocular vision, Perception & Pediatric Optometry Section & Inaugural President, India Chapter – American Academy of Optometry (AAO)) and Mitchell Scheiman, OD, PhD (Professor, Dean of Research and Sponsored Programs, Director of Graduate Programs, Salus University, Pennsylvania College of Optometry, PA USA)
In series: Eye and Vision Research Developments
Publication Date: 10/12/2021
This book is intended to engage students and practitioners in eyecare in the management of accommodative and binocular vision disorders through the use of case presentations. These are the cases that an eyecare professional encounters in day-to-day practice, and this book enables one to test their understanding of the assessment, diagnosis, and management through a quiz format. This book should grab your interest, resonate with your clinical practice, and bring new perspectives to your clinical approach, and add value to your diagnostic knowledge and skill set.

The Optimal Tech
Keli B. O’Connor, COMT, ABOC (Clinical Coordinator, Center for Advanced Retinal & Ocular Therapeutics at University of Pennsylvania, Philadelphia, PA, USA)

In series: Eye and Vision Research Developments
Publication Date: 01/28/2022
169 pp.
Softcover: 978-1-68507-498-2. $95.00
e-book: 978-1-68507-578-1. $95.00

The Optimal Tech provides information on the many facets of our job as eye care assistants while encouraging techs who may feel overwhelmed. Every subspecialty is broken down to the anatomy of the eye it involves, ailments one would expect to encounter while working with the subspecialty, and what a typical exam looks like for these injuries and diseases. Not only are technicians primed for eventually performing ophthalmic tests or assisting with surgery, but they are provided an explanation of why techs and doctors order all that they do.

ORTHOPEDICS

Musculoskeletal Pain (Common Clinical Presentations)
Mehmet Cenk Turgut, MD (Department of Orthopedics and Traumatology, Regional Training and Research Hospital, Erzurum, Turkey) and Serdar Toy, MD (Department of Orthopedics and Traumatology, Ağrı Training and Research Hospital, Ağrı, Turkey)

In series: Orthopedic Research and Therapy
Publication Date: 12/17/2021
408 pp.
Hardcover: 978-1-68507-410-4. $230.00
e-book: 978-1-68507-482-1. $230.00

With the increasing interest in sports and the prolongation of life expectancy, the frequency of musculoskeletal pain is increasing day by day. Musculoskeletal pain, which is included in the differential diagnosis of every physician regardless of branch, can cause serious problems in people's daily lives. People's unresolved pain disrupts their social lives and brings along various psychological problems. When this becomes a vicious cycle, it creates pain that cannot be solved. In this book, the possibilities of recognizing and understanding pain and taking an active role in the treatment process are presented. This book, which offers a deep examination of the physiology and genetics of pain, provides an approach to the causes and treatments of musculoskeletal pain that physicians frequently encounter in their daily clinics. We hope that this book, which we have prepared with the contributions of all relevant specialists, will be a book that our physicians will frequently benefit from.
Osteogenesis Imperfecta: From Diagnosis to Treatment

Dmitry A. Popkov MD, PhD (Professor, National Ilizarov Medical Research Centre for Traumatology and Orthopaedics, Kurgan, Russia; Associated member of Medical Academy of France) and Sergey Ryabykh MD, PhD (Priorov National Medical Research Center of Traumatology and Orthopedics, Moscow, Russia)

In series: Orthopedic Research and Therapy
Publication Date: 01/07/2022
293 pp.
Hardcover: 978-1-68507-499-9. $230.00
e-book: 978-1-68507-519-4. $230.00

Osteogenesis Imperfecta should be recognized as one of the most studied skeletal systemic dysplasias. Considering recent improvements of technology, the diagnostic and therapeutic strategies for this pathology might evolve in the future.

This volume presents a collection of chapters covering a wide range of problems related to this condition. Three chapters of the book are dedicated to the modern and revised data on the molecular genetic aspects of the classification and pathogenesis of osteogenesis imperfecta. Detailed descriptions of somatic issues are presented for all body systems. Principles and results of bisphosphonate therapy and other methods of medical management are described by leading Russian specialists in this field. The most significant experience in Russia of medical treatment and physical therapy will arouse the interest of readers.

The surgical part of the book is presented not only with a description of principles, methods and results of surgical interventions on the limbs, but also on the axial skeleton. Furthermore, two chapters are dedicated to the anesthetic aspects of orthopedic surgery in children with osteogenesis imperfecta. The substantiation is given to the methods of combined anesthesia and pain management during the surgery, as well as in the immediate postoperative period, taking into account comorbidities.

Telescopic rodding of long bones is a recognized gold standard in children with the disease, but there are multiple disadvantages of this approach. In the book we report new methods, combined techniques and technical tricks allowing to overcome inconveniences and flaws of common steel telescopic intramedullary rods.

At the end of the book, we discuss outcomes of complex management and the issue of patients' quality of life after treatment performed by a multidisciplinary team. The high level of quality of life of patients is the prime and principle goal of our team.

The data presented in this book are based, on one hand, on the personal, practical, and scientific experience of each author, and on the other hand, the entire team of authors works in collaboration with each other, coordinating their decisions and interventions with colleagues, thus ensuring continuity in treatment of children and adults suffering from Osteogenesis Imperfecta.

ATLAS OF SALIVARY GLANDS DISEASES

Salma Mohammed Al Sheibani, MD, Mohammed Jamil Hyder, MD and Subirendra Kumar, MD (Senior Consultants, Department of Otolaryngology and Head-Neck Surgery, Al Nahdha Hospital, MOH, Muscat, Oman)

In series: Otolaryngology Research Advances
Publication Date: 11/17/2021
282 pp.
Online Book: 978-1-68507-227-8. $0.00

This atlas provides a practical approach towards managing patients with salivary gland diseases. We have tried to richly supplement this work with illustrated case scenarios in most of the chapters. These represent our direct experience based on patients seen in our department. These illustrations will be a practical guide for otolaryngology residents and head and neck surgeons. There is also a chapter about the sialoendoscopic management of sialoadenitis, which is a relatively new approach for the management of sialoadenitis.
PAIN MANAGEMENT

Pain Management: Recent International Research
Joav Merrick MD, MMedSci, DMSc (Professor of Pediatrics at the Division of Pediatrics, Hadassah Hebrew University Medical Center, Mt Scopus Campus, Jerusalem, Israel; Kentucky Children’s Hospital, University of Kentucky, Lexington, United States and Professor of Public Health at the Center for Healthy Development, School of Public Health, Georgia State University, Atlanta, United States, the former Medical Director of the Division for Intellectual and Developmental Disabilities, Ministry of Social Affairs and Social Services, Jerusalem and the Founder and Director of the National Institute of Child Health and Human Development in Israel) and Mohammed Morad, MD, FRCP (National Institute of Child Health and Human Development, Jerusalem, Israel; Clalit Health Services; Department of Family Medicine, Division of Community Health, Faculty of Health Sciences, Ben Gurion University of the Negev, Beer Sheva, Israel)

In series: Pain Management - Research and Technology
Publication Date: 01/28/2022
308 pp.
Hardcover: 978-1-68507-493-7. $230.00

Before neurons and their role in pain were understood, there have been many explanations to account for pain. Hippocrates (370-460 BCE) believed that it was due to an imbalance in vital fluids and in the 11th century Avicenna (980-1037) theorized that there were a number of feeling senses including touch, pain and titillation. Today we talk about four types of pain: 1) Nociceptive pain: Typically the result of tissue injury, 2) Inflammatory pain: An abnormal inflammation caused by an inappropriate response by the body’s immune system, 3) Neuropathic pain: Pain caused by nerve irritation and 4) Functional pain: Pain without obvious origin. About 20% of adults have chronic pain and 7% of adults have chronic pain that frequently limits life or work activities, which increases with age. In this book we have gathered recent international research on pain and pain management from internationally renowned researchers from around the world, which we hope will be of interest to the reader.

PATHOLOGY

Advances in Neuropathology
John O. McCarthy

In series: Pathology and Laboratory Medicine
Publication Date: 03/04/2022
167 pp.
Softcover: 978-1-68507-620-7. $95.00
e-book: 978-1-68507-701-3. $95.00

This compilation includes eleven chapters detailing various advances in neuropathology. Chapter One includes a quantitative study concerning the spectrum of temporal lobe pathology in argyrophilic grain disease. Chapter Two discusses the clinical, pathologic, and recent genetic features of pineoblastoma tumors. Chapter Three defines the clinical and molecular pathological hallmarks of diffuse intrinsic pontine glioma and explores various therapies for treatment. Chapter Five reviews the clinico-pathologic and genetic features of supratentorial ependymomas. Chapter Six reviews various features of astroblastoma. Chapter Seven explores the clinical, pathology, and genetic features of pilocytic astrocytoma. Chapter Eight describes rare, benign brain tumors called craniopharyngiomas. Chapter Nine reviews the clinico-pathologic features of primary amebic meningoencephalitis and how it is impacted by climate change. Chapter Ten deals with a rare cerebral hemispheric tumor with characteristics often resembling grade 4 astrocytoma. Finally, Chapter Eleven details the clinico-pathologic features of myxoid glioneuronal tumors.
A Closer Look at Children’s Health

Felipe Fields

In series: Pediatrics - Laboratory and Clinical Research
Publication Date: 12/03/2021
287 pp.
Hardcover: 978-1-68507-407-4. $195.00

Eating and exercise habits developed in childhood can form the foundation of a healthy or unhealthy lifestyle in adulthood. As such, ensuring that children are introduced to healthy habits at a young age is essential to support their ability to maintain a high quality of life throughout their lives. This book contains nine chapters, each focusing on a different element of children’s health. Chapter One explores the variety of nutritional knowledge definitions, methods of assessment, and interventions to provide suggestions for research, practice, and stakeholders. Chapter Two explores recent data on the impact of COVID-19 on children’s and adolescents’ eating behaviors. Chapter Three examines the disordered and adaptive eating behaviors in pediatric obesity. Chapter Four reflects on the implementation of gamification to encourage healthy eating behavior in children. Chapter Five explores the causes of the rise of overweight and obesity among children in the United Arab Emirates. Chapter Six describes methods for the performance assessment of physical functioning in children. Chapter Seven analyzes the different factors influencing Indian children’s participation in physical activity. Chapter Eight discusses the necessity of pre-participation screening of children before they engage in moderate-vigorous intensity sports activities. Finally, Chapter Nine provides data on lower body strength and explosive power among children, collected via a vertical jump test.

Pediatrics and Adolescent Health: Recent International Research

Joav Merrick MD, MMedSci, DMSc (Professor of Pediatrics at the Division of Pediatrics, Hadassah Hebrew University Medical Center, Mt Scopus Campus, Jerusalem, Israel, Kentucky Children’s Hospital, University of Kentucky, Lexington, United States and Professor of Public Health at the Center for Healthy Development, School of Public Health, Georgia State University, Atlanta, United States, the former Medical Director of the Division for Intellectual and Developmental Disabilities, Ministry of Social Affairs and Social Services, Jerusalem and the Founder and Director of the National Institute of Child Health and Human Development in Israel) and Mohammed Morad, MD, FRCP (National Institute of Child Health and Human Development, Jerusalem, Israel; Clalit Health Services; Department of Family Medicine, Division of Community Health, Faculty of Health Sciences, Ben Gurion University of the Negev, Beer Sheva, Israel)

In series: Pediatrics, Child and Adolescent Health
Publication Date: 02/11/2022
340 pp.
Hardcover: 978-1-68507-490-6. $230.00
e-book: 978-1-68507-637-5. $230.00

About one in four youths used a tobacco product during the past 30 days. By school level, this is approximately three in ten high school students and one in eight middle school students. Since 2014, e-cigarettes have been the most commonly used tobacco product among youths. It is reasonable to assume that many young smokers are practicing this habit while with friends or at parties, exposing their friends and peers to hazardous passive smoking, which is also the case for smaller children exposed to their parental smoking. Smoking is just one important public health issue in childhood and adolescence, but there are many other issues in this period of our development. In this book we have gathered some recent research on children and youth from various places around the world on many topics, not just limited to smoking, which we hope will be of interest to the reader.
Why Do Children Die? Selective Perspectives on Thanatology in Pediatrics
Donald E. Greydanus, MD, Dr HC (ATHENS) (Professor and Founding Chair, Department of Pediatric and Adolescent Medicine, Western Michigan University Homer Stryker MD School of Medicine, Kalamazoo, MI), Dustin C. Rowland, MS (Western Michigan University Homer Stryker MD School of Medicine, Kalamazoo, MI) and Joav Merrick MD, MMedSci, DMSc (Professor of Pediatrics at the Division of Pediatrics, Hadassah Hebrew University Medical Center, Mt Scopus Campus, Jerusalem, Israel, Kentucky Children’s Hospital, University of Kentucky, Lexington, United States and Professor of Public Health at the Center for Healthy Development, School of Public Health, Georgia State University, Atlanta, United States, the former Medical Director of the Division for Intellectual and Developmental Disabilities, Ministry of Social Affairs and Social Services, Jerusalem and the Founder and Director of the National Institute of Child Health and Human Development in Israel)

In series: Pediatrics, Child and Adolescent Health
Publication Date: 02/17/2022
406 pp.
Hardcover: 978-1-68507-461-6. $230.00
e-book: 978-1-68507-597-2. $230.00

As we reflect on causes of death in our children, methods of prevention become critically important to research and implement. Research notes that millions of childhood injuries result in thousands of deaths. Death can be due to medical disease and considerable progress including prevention of death has been made in management of cancer and other conditions over the past century, especially in developed countries. It is also important to apply principles of management and prevention to consequences of aggression and chronic illness. As illustrated in this book, we must look at underlying issues, both medical and behavioral, in the physical and psychiatric health of our children. We should apply known principles of preventive medicine that are being researched in the 21st century to prevent needless deaths in our pediatric population. Prevention may arise from such understanding and application of known concepts with fewer pediatric deaths and fewer parents/families undergoing heart-breaking grieving processes.

PSYCHIATRY

Humanist Psychiatry, 2nd Edition
Nash N. Boutros, MD (Adjunct Professor, Department of Psychiatry, RUSH-University Medical Center, Chicago, IL, USA: Clinical Neurophysiology, Neuroscience Center, Deerfield, Illinois, USA)

In series: Psychiatry - Theory, Applications and Treatments
Publication Date: 01/06/2022
141 pp.
Softcover: 978-1-68507-501-9. $95.00
e-book: 978-1-68507-544-6. $95.00

Humanism is an optimistic philosophy that believes in the scientific process, human worth and dignity, and the ability of humankind to solve its problems no matter how complicated. “Humanist Psychiatry, 2nd Edition” is not about the practice of psychiatry, but rather about how the field is conceptualized, organized, and propelled forward. Despite the huge advances in the neurosciences in the last 30 to 40 years, the practice of psychiatry has remained stagnant except for a few newer and safer medications. This book is an outcry for all who care about human suffering in any form but particularly in the form of psychiatric disorders. The principle of worth and dignity does not place a price, nor take into consideration, the cost of taking care of human beings. Psychiatric disorders remain devastatingly widespread, under-recognized and under-treated worldwide. Psychiatric disorders are among the most common causes for disability and lost productivity. Psychiatric patients have lives that are 15 to 20 years shorter than mentally healthy populations. Advances in neuroscience research clearly and overwhelmingly point to the eventual unraveling of the mysteries of the brain. We, in psychiatry, cannot wait the decades it
will take to fully understand the brain. The term “mental” embodies the duality of mind-brain or mental-physical. Doing away with this duality is our first step to burying stigma and relegating it to medical history.

“Humanist Psychiatry” begins by summarizing the humanist principles, then discusses how the biology principle should guide advances in psychiatric research and how psychiatry research could be organized. The book addresses issues of education and practice from a humanist’s viewpoint. The book then goes into more specific areas of practice, like correctional and addiction psychiatry, discussing how practice adhering to the humanist principles would impact the field. The current edition of Humanist Psychiatry deals with controversial issues like drug legalization and whether psychiatry should have its own school instead of being a branch of medicine. Finally, the book discusses the issue of stigma and how humanism can help speed up the dissipation of the stigma associated with psychiatric disorders. The 2nd edition of Humanist Psychiatry has widened its scope to address all professionals working in the field, such as social workers, psychologists and addiction therapists in addition to all those who care about the issue of psychiatric disorders from community organizers to legislators.

Influences and Importance of Self-Awareness, Self-Evaluation and Self-Esteem

Heidi R. Thomas

In series: Psychology Research Progress
Publication Date: 01/06/2022
459 pp.
Softcover: 978-1-68507-528-6. $95.00
e-book: 978-1-68507-532-3. $95.00

Self-esteem forms a critical component of mental health, as an absence of self-esteem is associated with mental disorders like depression. As such, understanding the nature and meaning of self-esteem and related phenomena like self-perception is essential for treatment of a variety of mental illnesses. Chapter One utilizes terror management theory to explain what self-esteem is, how the need for self-esteem develops, how people attain and maintain self-esteem, and why self-esteem is so important for psychological well-being. Chapter Two demonstrates how self-esteem is the fundamental mental attitude that provides the qualities necessary to perform democracy and reject authoritarian threats.

Chapter Three deals with the definition of self-awareness, the description of the neural substrates that have been associated with it, and the examination of an interpretive neuroanatomical model of the phenomenon, with a focus on neurological and neuropsychological diseases. Chapter Four advocates a culture of self-evaluation as part of academic and professional culture through critical reflection on teaching and the results of one’s own work. Chapter Five analyzes self-concept as a predictor of the academic self-efficacy perceived by adolescents. Lastly, Chapter Six studies the relationship between testosterone levels and self-esteem in school-age boys and girls.

Looking for a Perfect World: Empirical and Applied Lines

Juan González-Hernández, PhD (Associate Professor Faculty of Psychology, Research Group Health Psychology & Behavioral Medicine, University of Granada, Spain) and Antonio Jesús Muñoz-Villena (University of Granada, Spain)

In series: Psychology Research Progress
Publication Date: 03/16/2022
308 pp.
Hardcover: 978-1-68507-625-2. $230.00
e-book: 978-1-68507-746-4. $230.00

The vision of perfectionism as a multidimensional variable has gained weight in scientific evidence as social functioning sets more rigorous performance standards of an individual or group differentiation in any field (e.g., academic, sports, work, social, religious...). There is a need to establish how we achieve the goals we set ourselves in any field of action, thanks mainly to the creation of valid and reliable instruments to measure it.

In today's societies, there is an increasing emphasis on how to respond to the demands of the environment as quickly as possible, being effective and achieving the best results. The demands of the environment make it possible to stimulate contextually (if they are seen as traits) and to construct perfectionist patterns and attitudes (if they are understood as learned cognitions or behaviors), which are usually associated with agonizing feelings of devaluation, incapacity or psychological vulnerability.

Perfectionists are characterized by setting their goals too high as they are always on a quest to do things perfectly. In cases where they cannot do something perfectly, they do not even try, or they live with significant suffering that floods their lives, causing feelings of dissatisfaction and affecting their self-esteem, mainly because their attention is reduced to focusing only on the end of the tasks they perform, leaving the development of the task in the background.

People who seek to do things perfectly are rigid when it comes to carrying them out, causing difficulty in adapting to changes, and preventing them from enjoying the present moment or taking advantage of their mistakes to improve themselves. In the same way, we can say that they reject reality, or at least they are reluctant to experience it in a way that is very different from
the way they shape it. It is impossible to make everything perfect, as all people make mistakes, but perfectionists conceive failure as an expression of their maladjustment and for this reason, they generate high levels of anxiety, becoming people who try to control everything around them.

**Obsessive-Compulsive Disorder: Symptoms, Therapy and Clinical Challenges**

*Jeffrey L. Nelson*

In series: *Psychiatry - Theory, Applications and Treatments*

Publication Date: 11/16/2021

142 pp.

Softcover: 978-1-68507-310-7. $82.00

e-book: 978-1-68507-326-8. $82.00

Obsessive-compulsive disorder (OCD), which is characterized by distressing intrusive thoughts and repetitive, time-consuming, task-oriented actions intended to counter these thoughts and reduce anxiety, represents a serious psychiatric condition and cause of disability worldwide. This book consists of five chapters that provide details on the effects of OCD and strategies for reducing its negative impact. Chapter One provides a general overview of OCD, including its neurochemical basis and treatment approaches. Chapter Two explores some of the nuisances present in working with individuals with OCD within the context of obsessive and compulsive content that may require additive elements to be considered in treatment. Chapter Three discusses the diagnostic criteria, clinical aspects, and current treatment approaches of pediatric acute-onset neuropsychiatric syndrome and pediatric autoimmune neuropsychiatric disorders associated with streptococcal infections. Chapter Four describes the effects of the COVID-19 pandemic on children and adolescents with OCD. Lastly, Chapter Five explains the role that religion takes in certain presentations of OCD and informs clinicians how to differentiate between standard religious practices and compulsive behaviors.

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**Encyclopedia of Public Health (22 Volume Set)**

*Arnold Aboubacar and Marguerita Hoyle*

In series: *Public Health in the 21st Century*

Expected Publication Date: 08/01/2022

Hardcover: 978-1-68507-015-1. $3,450.00

e-book: 978-1-68507-640-5. $230.00

This encyclopedia contains 22 volumes and a total of 552 chapters covering up-to-date research in the field of public health.

**Environmental Justice and the Intersection of Poverty, Racism and Child Health Disparities**

*I. Leslie Rubin, MD (Associate Professor, Department of Pediatrics, Morehouse School of Medicine and Co-Director, Southeast Pediatric Environmental Health Specialty Unit at Emory University, Founder, Break the Cycle of Health Disparities, Inc, Atlanta, GA, USA) and Joav Merrick, MD, MMEdSci, DMSc, (National Institute of Child Health and Human Development, Jerusalem, Israel; Division of Pediatrics, Hadassah Hebrew University Medical Centers, Mt Scopus Campus, Jerusalem, Israel; Division of Adolescent Medicine, KY Children’s Hospital, Department of Pediatrics, Lexington, Kentucky, USA; School of Public Health, Georgia State University, Atlanta, Georgia, USA)*

In series: *Public Health: Practices, Methods and Policies*

Publication Date: 02/02/2022

330 pp.

Hardcover: 978-1-68507-489-0. $230.00

e-book: 978-1-68507-640-5. $230.00

Break the Cycle of Children’s Environmental Health Disparities (Break the Cycle) is an annual collaborative interdisciplinary research and training program involving university students in academic tracks focusing on the impact of adverse social, economic, environmental, and political factors on children’s health, development, education, and prospects for their future.
The target populations are communities where there is a substantial measure of poverty associated with social, ethnic, racial, and political marginalization, environmental exposures and environmental injustice with high risks to children’s health and well-being. Participating students are required to develop projects that focus on preventing or reducing adverse environmental factors or their impact on children’s health and promote positive practices to improve the future outcome for children who live in these communities. Student projects cover a wide range of adverse factors and their associated health implications across the lifespan, and propose solutions at an individual, family, community, and societal level, with the potential for a positive intergenerational impact. At the end of the project period, participating students are required to present the results of their work at a national conference and then write a manuscript for publication. The papers in this publication represent the work of students who participated in the 15th Annual Break the Cycle program 2019-2020. The phrase Break the Cycle in this context uses the ecological construct of the cycle of environmental health disparities and offers a framework for tackling health disparities and promoting health equity among children who are vulnerable as a consequence of adverse social, economic, environmental and political factors.

Pandemics and Global Health

Nitha Balan, MSc, PhD (Assistant Professor, Department of Microbiology, Sree Ayyappa College Erumalikara, Chengannur, Kerala, India) and Manuel Thomas, MSc, PhD (Research Consultant, UniBiosys Biotech Research Labs, South Kalamassery, Kochi, Kerala, India)

In series: Infectious Diseases and Microbiology
Publication Date: 12/03/2021
385 pp.
Hardcover: 978-1-68507-228-5. $230.00
e-book: 978-1-68507-261-2. $230.00

Global public health is under constant strain, due to recent, ongoing, and potential global health crises especially in connection with emerging and reemerging infectious diseases. The past few decades have witnessed an unprecedented eruption of pandemics and epidemics spurred by globalization, climate change and population explosion. The book Pandemics and Global Health portrays a bird's eye view about pandemics and global public health in the 21st century. The COVID-19 pandemic has caused untold human suffering, social upheavals and a crippled economy which have wreaked havoc globally. This book is useful for academicians, policy makers, scholars, researchers, health professionals and people involved in combating epidemics and pandemics.

Public Health: Recent International Research

Joav Merrick MD, MMedSci, DMSc (Professor of Pediatrics at the Division of Pediatrics, Hadassah Hebrew University Medical Center, Mt Scopus Campus, Jerusalem, Israel, Kentucky Children’s Hospital, University of Kentucky, Lexington, United States and Professor of Public Health at the Center for Healthy Development, School of Public Health, Georgia State University, Atlanta, United States, the former Medical Director of the Division for Intellectual and Developmental Disabilities, Ministry of Social Affairs and Social Services, Jerusalem and the Founder and Director of the National Institute of Child Health and Human Development in Israel) and Mohammed Morad, MD, FRCP (National Institute of Child Health and Human Development, Jerusalem, Israel; Clalit Health Services, Department of Family Medicine, Division of Community Health, Faculty of Health Sciences, Ben Gurion University of the Negev, Beer Sheva, Israel)

In series: Public Health: Practices, Methods and Policies
Publication Date: 02/02/2022
297 pp.
Hardcover: 978-1-68507-491-3. $230.00
e-book: 978-1-68507-638-2. $230.00

Many public health issues date back in history and are still with us to this day. Alcohol and other substance use is just one example of an old problem still with us and when combined with driving in today’s world we get a dangerous combination. Public health efforts in this specific area have resulted in some positive developments and trends, but there is still much work to be done. In this book we have gathered recent international public health research not only about alcohol and driving, but
also other public health topics from internationally renowned researchers from around the world, which we hope will be of interest to the readers.

**Science, Culture, and Politics: Despair and Hopes in the Time of a Pandemic**

*Consolato M. Sergi (Full Professor of Pathology and Pediatrics, University of Alberta, Canada; Children’s Hospital of Eastern Ontario, University of Ottawa, ON, Canada)*

In series: *Public Health: Practices, Methods and Policies*
Publication Date: 09/17/2021
191 pp.
Hardcover: 978-1-53619-816-4. $160.00
E-book: 978-1-68507-161-5. $160.00

In June 2021, new waves of the current COVID-19 pandemic are still messing up our lives and magnetizing the compass of our life. No other epidemics or pandemics have been politicized at such a level since ancient times. The full political spectrum from right to left has tried to ride this pandemic and upset the public health response efforts. Statistics and politics have changed our daily approach to this brutal infection, but even crueler has been the palpable miscommunication. Massive and uncontrolled lockdowns and not climate change are destroying the economy of our planet. Intolerance against vaccine opponents and hesitant families has been vocalized with martial tones in both social media and news channels. In this book, the author analyzes the pandemic in a historical context, emphasizes the importance of facemasks, but also highlights our human approach to anti-mask psychology. It would be appalling to call mistakes in public health decisions “learned lessons” because it reduces the gravity of the consequences of inadequate communication. Our youth is our future. The mental issues arising from a lack of social interaction and in-person education are dreadful. Vaccines are powerful and represent the most outstanding progress in medicine. There is light at the end of the tunnel, but vaccine acceptance or herd immunity is not the answer, or probably, not the only one. There is true hope that we are going back to our world, but the COVID-19 pandemic may be an occasion to reconsider the traditional family in the center of our lives and daily politics. A tolerance towards any race needs to be contagious, militant, and blazing to vehemently rebuild and revitalize the American Dream.

**Respiratory and Pulmonary**

**Mask Interfaces for Noninvasive Mechanical Ventilation. Principles of Technology and Clinical Practice**

*Antonio M. Esquinas, MD, PhD, FCCP, FNIV, FAARC (Intensive Care Unit, Hospital Morales Meseguer, Murcia, Spain)*

In series: *Pulmonary and Respiratory Diseases and Disorders*
Publication Date: 4/28/2022
369 pp.
Hardcover: 978-1-68507-630-6. $230.00
E-book: 978-1-68507-823-2. $230.00

In noninvasive mechanical ventilation, the mask interface selection and design are the first physical contact with the patient and the more relevant determinant in their tolerance and response. There are a great number of designs and studies that focus on this topic. However, there is no practical book that incorporates deep analysis, rational physical determinants and patients’ responses. This book aims to offer comprehensive expert review chapters on the most significant recent developments in the field of mask interfaces for noninvasive mechanical ventilation, detailing the technology, practices and clinical implications in pulmonary and critical care by providing clear insights and interpretations. Chapters are intended to serve as a reference to those involved in technology, mask selection and patient interaction to properly deliver noninvasive ventilation (incorporating comfort, gas exchange, work of breathing, lung physiology, and interactions of positive pressure) in treatment of acute and chronic respiratory disorders. This aims to offer physicians and researchers a key cornerstone book to understand the basic technology of noninvasive ventilation interfaces and noninvasive ventilation response.

The book describes how mask interface technology influences noninvasive ventilation in four main aspects:

1) Patient response (comfort, adaptation, noninvasive ventilation failure)
2) Methodology (ventilatory modes, mechanical ventilators as a scientific reference for researchers, respiratory technicians and physicians)
3) New mask interface technology and new indications of noninvasive ventilation, and
4) Summary of key practical elements about mask interfaces to understand indications of noninvasive ventilation.
neuromuscular patient care. Respiratory support is often indispensable to sustain the patient’s life. Non-invasive ventilation (NIV) has taken on an increasingly important role in the care of patients with chronic respiratory failure secondary to neuromuscular disease. The NIV approach and complementary techniques are described. The management of airways and clearance of secretions are important aspects which are dealt with in a dedicated session, and a new theme – laryngeal response pattern during NIV and cough assist techniques – is also addressed.

The timing of the tracheostomy and choice of cannula are decisive in the management of the neuromuscular patient, thus the use of invasive mechanical ventilation. Topics of interest also include perioperative respiratory management, weaning from mechanical ventilation and extubation. The use of imaging techniques, such as videofluoroscopy of swallowing and sonography can support the clinician in the diagnosis of complications. Today, even pulmonary rehabilitation is an integral and indispensable part of patient care.

The text – developed with the contribution of experts dedicated to the daily care of patients with neuromuscular disorders – is an ambitious project which aims to provide an extensive discussion of the topic and support for those who already work with this type of patient, as well as for those who are starting to engage in this type of patient care.

Tracheostomy: Indications, Safety and Outcomes
Amit Agrawal, MD (Department of Neurosurgery, All India Institute of Medical Sciences, Saket Nagar, Bhopal, Madhya Pradesh, India), Nitish Kumar Baisakhiya (Professor and Head, Department of ENT, LN Medical College and JK Hospital, Bhopal, Madhya Pradesh, India) and Anuj Jain, MD (Department of Anesthesiology and Critical Care, All India Institute of Medical Sciences, Saket Nagar, Bhopal, Madhya Pradesh, India)

In series: Surgery - Procedures, Complications, and Results
Publication Date: 12/16/2021
327 pp.
Hardcover: 978-1-68507-188-2. $230.00
e-book: 978-1-68507-263-6. $230.00

Tracheostomy is one of the simplest, most valuable operations in surgical practice. In tracheostomy an opening is made in the anterior wall of the trachea and this opening is used for insufflation of oxygen-air mixture into the lungs. A tracheostomy may be performed on an emergency or elective basis; it may be a temporary or a permanent one. Over the past several years the indications for a tracheostomy have radically evolved. Earlier tracheostomies were mostly done to relieve an upper airway obstruction; now tracheostomies are mostly done in critical care settings to facilitate mechanical ventilation. Open surgical tracheostomy (OST) is usually done in an operation theatre. A detailed description is given in the relevant chapter of the book, but a certain salient point needs to be emphasized here. First and foremost, neck anatomy is to be clearly defined and structures should be identified, as most of the complications occur when the surgeon deviates from the midline. Percutaneous tracheostomy (PCT) has certain distinct advantages over open surgical tracheostomy (OST); PCT is faster to perform, easier to learn and can be performed at the point of care. In most adult ICU patients, a percutaneous tracheostomy (PCT) is the preferred technique unless contraindicated. Compared to surgical tracheostomy it leads to significantly lesser wound infections, but it is associated with a higher rate of accidental decannulation and obstruction. Use of real time ultrasonography while performing percutaneous tracheostomy has also helped in better identification of tracheal rings and hence in improving its safety for obese patients. Tracheostomies are usually straightforward, but complications still occur, often due to improper technique. Complications may be due to structural damage to vital structures of the neck leading to hemorrhage, tracheal damage, esophageal damage, failure to proceed, air embolism, aspiration, hypoxemia, tube misplacement, pneumothorax, tracheal stenosis, trachea-arterial
Medicine and Health

and tracheo-esophageal fistula. This book encompasses many clinically relevant scenarios in which a tracheostomy may be needed. However, certain situations demand special expertise; tracheostomy in pregnancy is one such situation. The aim of this book is to apprise readers with all the practical aspects of tracheostomy from patient’s selection to tracheostomy in special situations.

RHEUMATOLOGY

Vasculitis: From Diagnosis to Treatment
Roger M. Brown
In series: Rheumatism and Musculoskeletal Disorders
Publication Date: 11/11/2021
274 pp.
Hardcover: 978-1-53619-853-9, $195.00
e-book: 978-1-68507-324-4, $195.00
Vasculitis refers to diseases that cause blood vessel walls to thicken and narrow, cutting off blood supply to tissues and organs. Vasculitis encapsulates several conditions, and the cause of vasculitis is often unknown. This book explores various forms of vasculitis and options for treatment. Chapter One includes a detailed description of giant cell arteritis, a form of vasculitis involving inflammation of the middle and large arteries, including the latest management strategies. Chapter Two concerns different types of vasculitis affecting the lungs, their signs and symptoms, treatment, and complications needed for diagnosis. Chapter Three deals with eosinophilic granulomatosis with polyangiitis, a multisystemic necrotizing vasculitis characterized by allergic rhinitis, asthma, and peripheral eosinophilia. Chapter Four describes the common pathophysiology and cardiovascular complications arising in different vasculitides. Chapter Five reviews the pathophysiology, epidemiology, diagnostic investigation, and treatment of infection etiologies of Herpesviridae associated with vasculitis. Chapter Six elucidates the impact of vasculitis on the gastrointestinal system. Chapter Seven explains hypocomplementemic urticarial vasculitis syndrome, defined as presence of greater than six months of urticaria along with hypocomplementemia and multi-system manifestations such as recurrent abdominal pain, uveitis, arthralgia and glomerulonephritis. Chapter Eight explicates the use of biologics in treating rheumatology disorders, with rituximab being recommended in organ-threatening, refractory systemic lupus erythematosus. Lastly, Chapter Nine discusses the pathophysiology and adverse effects of adenoviral vector vaccinations for SARS-CoV-2 and the importance of identifying the true epidemiology of adverse outcomes regarding promoting increased acceptance of COVID-19 vaccinations, while stressing that despite the possibility of adverse outcomes, the benefits of vaccination outweigh the risks of remaining unvaccinated.

SPECIAL TOPICS

Advances in Health and Disease. Volume 41
Lowell T. Duncan
In series: Advances in Health and Disease
Publication Date: 09/27/2021
254 pp.
Hardcover: 978-1-68507-103-5, $250.00
e-book: 978-1-68507-166-0, $250.00
In this edited volume, updates in the field of health and disease are presented. Chapter One studies the incidence of hearing loss in patients with congenital cytomegalovirus infections. Chapter Two reviews the current literature concerning the multifactorial theories and etiologies of glaucomatous optic disc change and visual field loss in patients with normal-tension glaucoma. Chapter Three discusses the effectiveness of endovascular treatment for peripheral arterial disease, which is common in dialysis patients. Chapter Four describes a new technique for severely calcified infrapopliteal artery lesions called “percutaneous intraluminal needle cracking.” Chapter Five aims to identify the occurrence of chronic kidney disease in the family members of chronic hemodialysis patients. Chapter Six describes methods for the outpatient management of oncologic patients with solid tumors and febrile neutropenia. Chapter Seven ascertains the suitability of peritoneal dialysis as a first choice for treatment of acute kidney injury patients. Chapter Eight reports on the application of a cathodically pretreated boron-doped diamond electrode for the determination of phenylbutazone using the differential pulse voltammetry, as a simple alternative method for quality control of this drug. Chapter Nine investigates the liaison between contaminated foods and the occurrence of illness in consumers to provide a clear picture of reports during the years 2010-2020. Lastly, Chapter Ten reviews the benefits and
limitations of sodium-glucose cotransporter 2 inhibitors and the evidence behind the recommendations to support their use in different patient populations.

**Advances in Health and Disease. Volume 44**

**Lowell T. Duncan**

In series: *Advances in Health and Disease*

Publication Date: 09/27/2021

247 pp.

Hardcover: 978-1-68507-100-4. $250.00

e-book: 978-1-68507-169-1. $250.00

This edited volume includes some of the latest research pertaining to the topics of health and disease. Chapter One examines the interplay between molecular redox signaling and the ubiquitin-proteasome system. Chapter Two discusses the origin and mechanism of antibody development, autoantibodies’ association with disease, and the available therapeutic interventions. Chapter Three describes the microbial diversity of breast milk and the factors influencing this diversity. Chapter Four collects the evidence on adolescent bone growth, nutrition, physical activity, and hormonal changes related to occurrence of osteoporosis later in life. Chapter Five reviews evidence regarding the effects of allopurinol and febuxostat in kidney disease. Lastly, Chapter Six examines the phenomenon of elevated serum uric acid in patients with chronic kidney disease.

**Advances in Health and Disease. Volume 45**

**Lowell T. Duncan**

In series: *Advances in Health and Disease*

Publication Date: 10/20/2021

257 pp.

Hardcover: 978-1-68507-101-1. $250.00

e-book: 978-1-68507-218-6. $250.00

This edited volume presents recent updates in the fields of health and disease. Chapter One explores the role of nutrition in diseases of the musculoskeletal system. Chapter Two includes updated information about the role electrotherapy can play in physical therapy. Chapter Three discusses the immune factors regulating nasopharyngeal colonization and their role in otitis media, or inflammation of the middle ear. Chapter Four carries out a review of the evaluation and treatment of physiotherapy in children with autism spectrum disorders, focusing on a clinical case of a 4-year-old girl diagnosed with autism who presented a pattern of toe walking. Lastly, Chapter Five examines two intervention programs, ecologically-based family therapy and community reinforcement approach, focusing on reducing substance use and abuse among homeless adolescents.

**Advances in Health and Disease. Volume 46**

**Lowell T. Duncan**

In series: *Advances in Health and Disease*

Publication Date: 10/20/2021

281 pp.

Hardcover: 978-1-68507-180-6. $250.00

e-book: 978-1-68507-266-7. $250.00

This edited volume presents recent updates in the fields of health and disease. Chapter One studies Noroviruses are known as causative agents of sporadic infections and epidemic outbreaks of acute gastroenteritis in humans. Chapter Two presents the harmful effects of fluoride intake, fluorosis induction, and provides relevant information about oxidative stress caused by fluoride both in vivo and in vitro studies. Chapter Three suggested that a comparison of multiple prediction models, the time series model, produced the most accurate and better forecast value for the COVID-19 outbreak. Chapter Four targets type-2 diabetes is an immune-metabolic disorder characterized by low grade inflammation, pancreatic β cell dysfunction; insulin insufficiency or resistance. Chapter Five focus studies to explore this aspect of the immune defect and develop new tools for its comprehensive evaluation. Chapter Six studies are revealing how variations and changes in the composition of the gut microbiota influence normal physiology and contribute to diseases ranging from inflammation to obesity. Chapter Seven aims to evaluate the available literature regarding the antimicrobial effects of thymol and thymol nanoformulations. It also covers the recent advances in applications of thymol as antimicrobial agent. Chapter 8 review possible thrombotic mechanisms in antiphospholipid syndrome from the clinician point of view who treats thrombotic complication but is one who should also take out preventive measures. The level at which preventive action is possible is strict control of primarily cardiovascular risk factors, control of the activity of autoimmune diseases, and full thrombophilia screening. Finally, Chapter Nine discusses
thrombocytopenia in COVID-19 patients is a common finding, recent studies have reported an unusually high prevalence of thrombotic complications which was the reason for the measuring of aPL. The aPLs in COVID-19 patients are mainly directed against b2GPI but display an epitope specificity different from that of the antibodies in antiphospholipid syndrome. Coagulopathy and vasculopathy are initial stages in both COVID-19 infection and APS sharing three similar stages.

Advances in Health and Disease. Volume 47
Lowell T. Duncan
In series: Advances in Health and Disease
Publication Date: 11/05/2021
248 pp.
Hardcover: 978-1-68507-254-4. $250.00
e-book: 978-1-68507-300-8. $250.00
This compilation presents some of the latest research in health and disease. Chapter One provides insight into the ophthalmic manifestations of dyslipidemia and how they may be managed concomitantly, with particular reference to the statins and their efficacy. Chapter Two proposes the application of personalized medicine for the treatment of hereditary hemorrhagic telangiectasia. Chapter Three summarizes the main studies in the field of psychological interventions for bariatric surgery patients exploring the advances on new online therapeutic and management strategies, and personalized medicine including stepped care approaches. Chapter Four examines the relationship between interpersonal stressors, coping with interpersonal stress, and sleep disorders focused on gender. Finally, Chapter Five describes the impact of exercises using a foam roller to reduce back pain in scoliosis patients.

Advances in Health and Disease. Volume 48
Lowell T. Duncan
In series: Advances in Health and Disease
Publication Date: 11/23/2021
218 pp.
Hardcover: 978-1-68507-375-6. $250.00
e-book: 978-1-68507-400-5. $250.00
This volume presents some of the latest advancements in the field of health and disease research. Chapter One deals with aberrant regulation of mTOR in hematological malignancies and the use of mTOR inhibitors in their treatment. Chapter Two explores synthetic and natural mTOR inhibitors for the treatment of cancer and other diseases caused by over-activation of mTOR. Chapter Three discusses various types of cancer, neuroinflammatory and neurodegenerative diseases, and their causes along with their significant signaling and effects. Chapter Four describes the structure of mTOR and mTOR upstream and downstream signaling pathways. Chapter Five relates various types of prostaglandins with processes like ovulation, luteolysis, implantation, menstrual cycle, parturition, fallopian tube motility along with associated metabolic processes. Lastly, Chapter Five addresses the subjects of compliance, adjuvants, aspects of individuals’ systemic health, and quality of life in connection with periodontal maintenance therapy.

Advances in Health and Disease. Volume 49
Lowell T. Duncan
In series: Advances in Health and Disease
Publication Date: 12/17/2021
272 pp.
Hardcover: 978-1-68507-495-1. $250.00
e-book: 978-1-68507-504-0. $250.00
This volume contains ten chapters, each of which describes a recent advancement in health and disease. Chapter One aims to discuss various molecules proposed as potential disease biomarkers of biliary atresia in the recent past along with their strengths and weaknesses. Chapter Two provides an up-to-date review of the main metabolic pathways involved with the beneficial effects attributed to HIIT in the white adipose tissue, brown adipose tissue, liver, heart, and pancreas of rodent models. Chapter Three examines nine cases of motor neuron disease associated with frontotemporal dementia. Chapter Four explores the functional diversity of the endoplasmic reticulum, the largest endo-membrane organelle that exerts a central role in cellular functions. Chapter Five reviews the evolution of COVID-19, caused by the virus SARS-CoV2, as a threat to the health care system worldwide. Chapter Six deals with therapeutic apheresis and/or monoclonal antibodies in the treatment of hemolytic uremic syndrome in view of pathophysiologic aspects. Chapter Seven deals with the concept of health literacy in the digital era. Chapter Eight reviews the clinical and pathologic features of sarcoid myopathy. Chapter Nine examines the outbreaks of
yersiniosis during the years 2010-2020, the pathogenicity of Y. enterocolitica as well as the clinical symptoms of the infection in humans. Lastly, Chapter Ten provides a clinicopathologic review of focal myositis, a rare disorder first described in 1977 by Heffner and colleagues.

Advances in Health and Disease. Volume 50
Lowell T. Duncan
In series: Advances in Health and Disease
Publication Date: 02/17/2022
206 pp.
Hardcover: 978-1-68507-564-4. $250.00
e-book: 978-1-68507-642-9. $250.00
This ten-chapter volume presents some recent advancements in health and disease. Chapter One explains the increased mortality rate owing to atherothrombosis and cardiovascular diseases. Chapter Two reviews the evidence for all current management strategies for recurrent hypoglycaemia in diabetes. Chapter Three provides information on the relationship between obesity and circulating levels of C-reactive protein. Chapter Four describes high-sensitivity C-reactive protein as a biomarker of diabetes and hypertension. Chapter Five studies the combination of two self-associating biopolymers such as high-molar-mass hyaluronan and chitosan for treatment of skin wounds. Chapter Six outlines an integrated approach to address the issues of high levels of stress and burnout in the workplace. Chapter Seven examines pericoronary adipose tissue as a possible storage and supply site for lipoproteins and apolipoproteins in the human coronary artery. Chapter Eight deals with corneal collagen cross-linking protocols for the management of keratoconus. Chapter Nine discusses free radicals, their formation and catabolism, and their beneficial and adverse effects on cellular activities. Finally, Chapter Ten details various diagnostic tests for vasculitis.

Advances in Health and Disease. Volume 51
Lowell T. Duncan
In series: Advances in Health and Disease
Publication Date: 04/11/2022
200 pp.
Hardcover: 978-1-68507-657-3. $250.00
e-book: 978-1-68507-779-2. $250.00
This volume presents some of the latest research updates related to health and disease. Chapter One investigates how traditional Chinese medicine can be leveraged in service of assisted reproductive technology. Chapter Two includes details about several drugs used in the treatment of rheumatoid arthritis. Chapter Three reviews the changing perspective of infection prevention and control measures in maternal and child healthcare settings. Chapter Four examines the role that infection control nurses play in the infection prevention and control teams of healthcare centers. Chapter Five explores some psycholinguistic aspects of illness narratives in patients with pulmonary hypertension as a therapeutic means to lessen patients’ disease-related burden and promoting the sense-making of their illness experience. Lastly, Chapter Six highlights the prognostic value of various microRNAs with reference to chronic kidney disease.

Advances in Health and Disease. Volume 52
Lowell T. Duncan
In series: Advances in Health and Disease
Publication Date: 02/17/2022
207 pp.
Hardcover: 978-1-68507-665-8. $250.00
e-book: 978-1-68507-673-3. $250.00
This volume includes eight chapters that provide updates on recent advances in health and disease research. Chapter One reviews the clinical uses of mitomycin C in the eye and its complications. Chapter Two reviews the current knowledge and understanding on the regulatory mechanisms and pathophysiology of urinary stone disease. Chapter Three discusses how the Association of Southeast Asian Nations deals with the COVID-19 pandemic and how it adapts its disaster management mechanisms with its existing bureaucracy. Chapter Four describes the applications of computed tomography scans in the assessment of craniofacial morphology. Chapter Five discusses the work done using scanning electron microscopy-energy dispersive X-ray spectroscopy to describe the structural and compositional investigations in kidney stones and its evolution over the decades. Chapter Six deals with the complex host-microbe interactions associated with the pathogenesis of post-COVID
mucormycosis and its management in the primary and revision scenario. Chapter Seven highlights the potential role of Vitamin D and Vitamin D receptor gene polymorphism in the prognosis of kidney stone formation through extensive secondary data. Finally, Chapter Eight examines the utility of village folklore medicines for management of stress and other applications.

Advances in Medicine and Biology. Volume 186
Leon V. Berhardt
In series: Advances in Medicine and Biology
Publication Date: 09/09/2021
236 pp.
Hardcover: 978-1-68507-069-4. $250.00
e-book: 978-1-68507-122-6. $250.00
This edited monograph contains five chapters that present advancements in the fields of medicine and biology. Chapter One provides a comprehensive review of the biological specimens used to monitor antipsychotic drugs as well as the analytical methods and sample preparation techniques used for their determination. Chapter Two focuses on estradiol and how it regulates the biology of innate and adaptive immune cell subpopulations, and how it may contribute to the resolution, exacerbation, or treatment for colorectal cancer. Chapter Three discusses the involvement of vitamin A in different areas such as embryonic development, development of the nervous system, and diseases. Chapter Four discusses environmentally friendly methods for the production of bismuth nitrate solutions and conditions for the hydrolytic purification of bismuth from the main metal impurities, specifies the compositions of the compounds used in medicine, and gives the production conditions for high purity bismuth compounds and the data on their toxicity. Finally, Chapter Five describes the use of gravitational mass spectroscopy to study the evolution of muscles.

Advances in Medicine and Biology. Volume 187
Leon V. Berhardt
In series: Advances in Medicine and Biology
Publication Date: 09/27/2021
210 pp.
Hardcover: 978-1-68507-107-3. $250.00
e-book: 978-1-68507-121-9. $250.00
This edited monograph includes eight chapters, each discussing recent advancements in the fields of medicine and biology. Chapter One provides information on the mechanisms of polyurethane degradation. Chapter Two reviews the inhibitory effect of chlorogenic acid on metabolic syndrome-related vascular endothelial cell apoptosis, type 2 diabetes, hypertension, and dyslipidemia. Chapter Three investigates the development of fatigue of rat skeletal muscle under the action of water-soluble pristine C60 fullerenes as powerful antioxidants. Chapter Four describes the targeted delivery of immunosuppressants. Chapter Five focuses on the in vitro degradation of biopolymers using enzymes and microorganisms. Chapter Six reviews the risk factors for hearing loss in infants admitted to the neonatal intensive care unit and the management of such patients detected with hearing loss. Finally, Chapter Seven describes recently developed methods and tools used in physiological studies of human sensory neurons induced from human pluripotent stem cells.

Advances in Medicine and Biology. Volume 188
Leon V. Berhardt
In series: Advances in Medicine and Biology
Publication Date: 10/20/2021
268 pp.
Hardcover: 978-1-68507-179-0. $250.00
e-book: 978-1-68507-248-3. $250.00
This edited manuscript includes six chapters, each describing recent advancements in medicine and biology. Chapter One investigates the impact on psychopathology of adding lurasidone to clozapine for people with treatment-resistant schizophrenia. Chapter Two reviews some intestinal protozoa and their diseases in immunodeficient patients. Chapter Three addresses the general role of inflammasomes and reviews current knowledge of potential therapeutic application of inflammasomes in neurological disorders. Chapter Four looks at the role of ion channel activation and downstream signal transduction in modulating Sertoli cell behavior to a final physiological response and its potential impact on spermatogenesis. Chapter Five includes a comprehensive view on sulfur-containing
saponins and their mode of actions. Lastly, Chapter Six assesses the pathophysiological impacts of Spironucleus salmonis infection on the seawater adaptability of juvenile chum salmon.

**Advances in Medicine and Biology. Volume 189**  
*Leon V. Berhardt*  
In series: *Advances in Medicine and Biology*  
Publication Date: 11/05/2021  
242 pp.  
Hardcover: 978-1-68507-234-6, $250.00  
e-book: 978-1-68507-268-1, $250.00  
This edited monograph includes seven chapters, each discussing recent advancements in the fields of medicine and biology. Chapter One discusses the biomedical engineering must frequently develop a great variety of sensors by including information from performance of bio-samples (cell cultures or tissues), technical specifications of transducers, and constrains derived from electronic circuits. In this work it is described a methodology for real-time cell culture monitoring system design; analyzing, modelling, and integrating into the design flow the electrodes, cell culture and test circuit’s influences. Chapter Two contributes to a deeper understanding of the main pathways playing a role in the complex mechanisms triggered in Fe-treated organisms. Chapter Three describes one of the most important medical evolutions of the last decade is the development of personalized medicine. The success of personalized medicine depends on having accurate diagnostic tests that identify patients who can benefit from targeted treatment strategies. Over the last years, a large range of different omics have led to the development of valuable biomarkers, based on genomics, proteomics, transcriptomics, metabolomics etc. Only few attention has been paid to the study of glycomics, an attractive though not well known technology that can lead to the development of biomarkers in a variety of diseases. Chapter Four provides information that amoeboid protists are a taxonomically eclectic group encompassing ‘amoebae’ and ‘amoeboflagellates.’ They are single-celled organisms that move by a crawling-like motion, while extending pseudopodia (slender or finger-shaped protrusions) from the periphery of the cell. Their shape is highly variable; and the number and organization of the pseudopodia, in addition to cell shape, are important features used to categorize and taxonomically identify the amoebae. Chapter Five subject dealt with in this chapter may be useful for improving strategies to treat certain diseases as well as for the design of materials for tissue engineering, among other applications. Chapter Six indicates that abnormalities in physical properties of the cell membranes may be strongly linked to hypertension and other circulatory disorders. Finally, Chapter Seven review that Diphtheria, known to be an acute toxin mediated, contagious febrile illness is caused by the bacterium Corynebacterium diphtheriae.

**Advances in Medicine and Biology. Volume 190**  
*Leon V. Berhardt*  
In series: *Advances in Medicine and Biology*  
Publication Date: 12/03/2021  
287 pp.  
Hardcover: 978-1-68507-402-9, $250.00  
e-book: 978-1-68507-436-4, $250.00  
This volume includes some of the latest research in the fields of medicine and biology. Chapter One discusses various technologies for the repair of skin tissue. Chapter Two reviews the pathophysiology, symptoms and treatment of diseases. Chapter Three illustrates how an understanding of colloidal behavior of proteins can enhance product development of biologics such as antibodies and antibody drug conjugates. Chapter Four deals with the characteristics and clinical significance of TP53 abberations in chronic lymphocytic leukemia. Chapter Five examines the effect of dietary histidine supplementation on growth, muscle cellularity and critical swimming of meagre Argyrosomus regius larvae, whereas Chapter Six deals with the combined effect of water temperature and dietary protein on this organism. Chapter Seven sheds light on the possible major and minor factors leading to exacerbation and induction of the different forms of urticaria.
This volume, comprised of six chapters, presents some of the latest advancements in medicine and biology research. Chapter One investigates six linear traits of three species of beetles in the Southern Siberian and North Caucasus mountains. Chapter Two analyzes the efficiency of surgical treatment of tuberculosis, which remained common in Russia despite the development of efficient and less invasive drug therapies. Chapter Three summarizes the literature on temporomandibular joint arthrocentesis. Chapter Four discusses the neuroprotective effects of some of the most used nutraceutical compounds and their possible future neuro-therapeutic role. Chapter Five examines the neurological differences in emotional processing between males and females. Lastly, Chapter Six assesses sexual dimorphism using the NumPy library for the Python programming language by creating digital analog arrays of the histochemical activity of the acid phosphatase, alkaline phosphatase, adenosine triphosphatase and peroxidase using the example of sebaceous and eccrine glands of the skin of male and female Norway rats.

This volume includes five chapters dealing with some of the latest advances in medicine and biology. Chapter One pontificates on the impact of the sequencing of the human genome on the search for life in the universe. Chapter Two summarizes current understanding of how to assess endothelial dysfunction, main risk factors, mechanisms underlying its development, prognostic implications, and biomarkers. Chapter Three assesses the effects of the hormone irisin on glucose metabolism. Chapter Four highlights the common disorders that need to be considered as a differential diagnosis for neuromyelitis optica spectrum disorder and features that help in their differentiation. Finally, Chapter Five deals with tapered modular femoral components in revision total hip arthroplasty.

This volume includes eight chapters detailing recent advances in the fields of medicine and biology. Chapter One reviews in vitro animal and clinical findings on the antioxidant properties of Crocus sativus L. and its constituents. Chapter Two discusses advances in the possible role of non-selective channels in muscular denervation and dystrophies. Chapter Three presents a standardization of a testicular irradiation protocol in rats and an assessment of the histopathological and morphometric-stereological changes on the testes and epididymis, and vitality, concentration, and morphology of sperm according to a crescent curve of ionizing radiation dose, which is relevant for cancer treatments. Chapter Four describes the classical aspects of bovine mastitis and its underlying gene networks. Chapter Five reviews the etiologies, pathophysiology, and diagnostic work-up of acute aortic regurgitation and highlights key principles in its management. Chapter Six assesses the advantages and disadvantages of different surgical options for Charcot-Marie-Tooth disease. Chapter Seven provides an overview of molecular mechanisms responsible for the development of urticaria as well as molecular therapeutic agents under development for the treatment of urticaria. Finally, Chapter Eight describes recent guidelines for diagnosis and management of various types of urticaria.
This volume includes eight chapters which describe recent advances in medicine and biology. Chapter One summarizes new therapeutics for the treatment of optic neuritis, a condition involving primary inflammation, demyelination, and axonal injury of the optic nerve. Chapter Two uses animal models of viral myocarditis to study the natural history, genetics, pathogenesis, and clinical manifestation of viral myocarditis in humans. Chapter Three evaluates the functions of fibroblast growth factors in physiological mechanisms, their role in maintaining homeostatic balance, their role in signal transduction regulation, metabolism and interactions between organisms, and their relationship with diseases. Chapter Four investigates the potential of antibiotics to fight against the inherently nonspecific adaptation mechanisms of bacteria. Chapter Five deals with new methodologies for drug development to counter the evolution of mechanisms to resist antibiotics such as efflux pumps in bacteria that cause infectious disease. Chapter Six concerns the development of new therapeutic strategies regarding the involvement of brain neuropeptides in alcohol use disorder. Chapter Seven examines growth promotion and changes in functional constituents through arbuscular mycorrhizal fungi symbiosis in Asian ginseng. Finally, Chapter Eight explicates procedures for postoperative care in thoracic surgery.

Chapter Five describes the use of four-dimensional computed tomography for the detection of enlarged parathyroids in the management of primary hyperparathyroidism. Chapter Six reveals the changes in the blood concentration of cell-free DNA and a number of biochemical and hemocytological parameters in the early stages of radiation cystitis development after local irradiation of the female rat pelvic region. Chapter Seven includes an evaluation of the safety and efficacy of pediatric appendectomy as compared to antibiotic-only treatment. Finally, Chapter Eight discusses a novel four-dimensional computed tomography technique that consists of sixteen different contrast phases instead of three or four phases, enabling detection of structures with a very short enhancement pattern.

Chapter Five describes an overview of protein changes that occur in patients on peritoneal dialysis treatment. Chapter Two evaluates the active production of superoxide anions by granulocyte colony-stimulating factor using Cypridina luciferin analog-dependent chemiluminescence. Chapter Three focuses on a combination of polymers for mimicking biological, chemical, and physicomechanical properties of the extracellular matrix. Chapter Four examines visual interventions for children with developmental dyslexia. Chapter Five suggests that a comprehensive repertoire of signaling and metabolic remodeling
mechanisms may explain the evolutionary resilience of bacteria over geological eons. Lastly, Chapter Six analyzes measurements of the proton spin-lattice relaxation rate in malignant and nonmalignant ascites.

An Introduction to Medicinal Herbs

Mila Emerald, Phd. Dr.Sc. (Founder & CEO, PHYTOCEUTICALS International ™ & NOVOTEK Global Solutions ™, Canada)

In series: Herbs and Herbalism

Publication Date: 11/11/2021
365 pp.
Hardcover: 978-1-68507-147-9. $230.00
e-book: 978-1-68507-287-2. $230.00

Medicinal plants always plaid and important role in the maintenance of health, wellbeing, and everyday life of a population worldwide. During the centuries, plants leaves, stems, flowers, seeds, berries, and roots were used for healing and maintenance of a different pathological conditions, as well as in beauty formulas, massage applications, foods preparations and beverages. This book, which is based on a scientific findings and original research, represent a comprehensive and up to date introduction to medicinal plants from all over the world, describes their huge economic, and therapeutic potential, and analyzing different aspects of their genotoxicity, and importance for human health and homeostasis.

The first two chapters are focused on the importance of sustainable agriculture, and a new progressive plants cultivation approach, which is suggested to be used to enhance the farm’s economy at large. Both chapters are including an information on use agroecology in cultivation of sustainable agriculture, pointing to an integrated goal of intercropping herbs, as well as discusses some medicinal plants and spices traditionally used in biodynamic and organic agricultural production. A huge potential of medicinal plants in cosmetics and pharmaceuticals, as well as an overview of some plants and their families with their applications in drugs discovery, are highlighted in chapter three, which is also including an information on extraction techniques used for the development and creation of a natural products. Even if herbal formulations are generally expected to be safe because they are ‘natural’, it is crucial to understand that some medicinal plants demonstrate a specific toxicity, which must be considered during the formulation, development and manufacturing of the novel herbal pharmaceuticals, diet supplements, beauty care and other products as well. Chapter four, which is also including the individual case studies, provides valuable overview of bioassays for screening genotoxic potential, as well as description of specific testing examples of chosen medicinal plants. Due to an important role in human health, during the last decades gastrointestinal microbiota is constantly in the spotlight of the scientists and medical professionals. Disbalance in microbiota can lead to a serious pathological conditions, and brain-gut axis is a crucial for human immune system and maintenance of good health and wellbeing. Importance of medicinal plants and its bioactive compounds and their implication on human microbiota, is perfectly highlighted in chapter five, which not only describes the beneficial effects of medicinal plants on human digestion and health in general, but also focused on the powerful role of different bioactive plant metabolites in the host health. Although there is lots of information available on the therapeutic properties of the selected plants and their secondary metabolites, chapters six, seven and eight are demonstrate an opportunity for medicinal plants and their compounds to be used for prevention and maintenance and in the future – an effective treatment of metabolic, neurological, and degenerative diseases. An antioxidant, detoxifying, nutritional, anti-inflammatory, antimicrobial, and other properties of medicinal plants compounds are highlighted, studied, and suggested to be considered as highly useful for prevention, maintenance, and development of the future treatments for affecting a huge population, metabolic, anxiety and degenerative diseases. Biotechnological interventions are an important pathway for future technological advances and plants conservation, but it could be limited towards assess the genetic diversity through molecular markers. Using medicinal plants in biotechnological applications is covered in chapter nine, which represents up to date available information on phytochemistry, diversity and biotechnological advances that have been made so far for medicinal plants. The text of the chapters illustrates plant bioactives, their molecular constituents, such as flavonoids, alkaloids, tannins, coumarins, lignans, glycosides, and others, based in research and case studies, and describes its potential applications.

To summarise, this book is an important contribution to a science and research developments, which helps better understanding of a great potential of medicinal plants. It provides the reader with a great amount of useful and valuable information including research statements, great reading materials, figures, and data tables, as well as extensive lists of the references, which can be helpful for research and new natural products development.
Blockchain and Health: Transformation of Care and Impact of Digitalization

Jan Veuger, PhD, BBA, MRE, FRICS (Professor of Blockchain, Saxion University of Applied Sciences, School of Finance and Accounting, School of Creative Technology, School of Governance, Law and Urban Development, Hospitality Business School, School of Commerce and Entrepreneurship, School of People and Society, The Netherlands)

In series: Health Care in Transition
Publication Date: 11/11/2021
312 pp.
Hardcover: 978-1-68507-232-2. $230.00
e-book: 978-1-68507-260-5. $230.00

The secure storage of medical records is vital to any healthcare system. Relying solely on centralized servers increases the likelihood of sensitive information going public. Transparency and increased security of Blockchain technology make it an ideal platform for storing medical records. Patients can safely store their privacy-sensitive information by securing their data on a Blockchain using cryptography. This enables them to share their medical information with any healthcare institution with their approval. The healthcare system is currently very fragmented, but if all users were to use a secure global database, the flow of information between them would be much faster.

A great advantage of a global database is that clients do not have to tell their story every time. A medical specialist, for example, can see exactly what a patient has been through and what treatments and examinations have taken place. The information is also available in real time to the healthcare professional the client has indicated to have access to his file.

A new revolution is taking place that is clearly different from the third industrial revolution (Internet, communication and globalization). This fourth industrial revolution involves a fusion of technologies such as biotechnology, nanotechnology, artificial intelligence, robotics, the Internet of Things, cloud computing and Blockchain. Our healthcare society is also changing fundamentally, also under the influence of COVID-19.

With this book in three chapters, we present the impact of Blockchain and digitization in healthcare with (1) a systematic literature review on implementing blockchain solutions in healthcare and organizational consequences, (2) Blockchain in healthcare and (3) transformation of elderly care and impact of digitalization.

Disability: Some Recent International Research

Joav Merrick MD, MMedSci, DMSc (Professor of Pediatrics at the Division of Pediatrics, Hadassah Hebrew University Medical Center, Mt Scopus Campus, Jerusalem, Israel, Kentucky Children’s Hospital, University of Kentucky, Lexington, United States and Professor of Public Health at the Center for Healthy Development, School of Public Health, Georgia State University, Atlanta, United States, the former Medical Director of the Division for Intellectual and Developmental Disabilities, Ministry of Social Affairs and Social Services, Jerusalem and the Founder and Director of the National Institute of Child Health and Human Development in Israel) and Mohammed Morad, MD (Yaski Community Medical Center, Ben Gurion University of the Negev, Clalit Health Services, Beer-Sheva, Israel)

In series: Disability Studies
Publication Date: 12/16/2021
193 pp.
Hardcover: 978-1-68507-309-1. $160.00
e-book: 978-1-68507-426-5. $160.00

Wherever we live or whatever we do, disability will always be a part of us. With increasing age, we will all surely encounter disability. Disability can arise from age or outside forces, such as a traffic accident. It is estimated that more than a billion people, or about 15% of the world’s population, live with some form of disability. Disability research is therefore important not only for the individual and the family, but also for the society to adapt and facilitate a better quality of life for this segment of the population. For example, research from the United States found significant disparities in the prevalence of disability between urban and rural residents, with rural residents having the highest prevalence of disability. Such epidemiology and survey research can be important tools for public health and can guide policy makers to allocate budgets, service facilities
and expertise. In this book, we have gathered recent disability research from around the world that we hope will be of interest to the reader.

**Evidence-Based Medicine: From the Clinician and Educator Perspective**

**Sowdhami Wallace, DO, MS (Division of Pediatric Hospital Medicine, Department of Pediatrics, Baylor College of Medicine, Texas Children’s Hospital, Houston, TX, USA) and Ganga Gokulakrishnan, MD, MS (Division of Neonatology, Department of Pediatrics, Baylor College of Medicine, Texas Children’s Hospital, Houston, TX, USA)**

In series: *New Developments in Medical Research*

Publication Date: 02/25/2022

363 pp.

Hardcover: 978-1-68507-546-0. $230.00

e-book: 978-1-68507-700-6. $230.00

This book, *Evidence-Based Medicine: From the Clinician and Educator Perspective*, is authored by experts in evidence-based medicine (EBM) from various medical specialties and healthcare disciplines across the United States and Europe. This book is geared toward any healthcare professional or trainee who wishes to learn more about critical appraisal of the scientific literature, how to teach EBM and other important facets of EBM. The book covers fundamental concepts in defining clinical questions, literature search strategies and basic biostatistics. Additionally, the book describes the process for critically appraising scientific studies across many different study designs including: observational studies, interventional studies, diagnostic test accuracy studies, systematic reviews and meta-analyses. In addition to these traditional appraisal concepts, readers will learn the principles to consider during appraisal of survey-based research, qualitative research and clinical practice guidelines. Readers will also attain knowledge to prepare them to be skilled in teaching evidence-based medicine in clinical settings, designing EBM curricula for trainees, and implementing strategies for faculty development in EBM. Last, the book covers other important facets of EBM including high value care, the nurse’s role in evidence-based practice, and the integration of technology to aid in evidence-based practice. Overall, this book will provide clinicians with the knowledge needed to provide high quality evidence-informed care for patients and to teach the next generation of trainees how to incorporate EBM into patient care.

**India: Disability, Health and Slum Issues**

**Ariel Tenenbaum, MD (Director, Center for Children with Chronic Diseases and Down Syndrome Center Jerusalem, Division of Pediatrics, Hadassah Hebrew University Medical Center Mount Scopus Campus, Jerusalem, Israel), Ritu Kalgotra (Department of Education, University of Jammu, Jammu, India) and Joav Merrick MD, MMedSci, DMSc, (National Institute of Child Health and Human Development, Jerusalem, Israel; Division of Pediatrics, Hadassah Hebrew University Medical Centers, Mt Scopus Campus, Jerusalem, Israel, Division of Adolescent Medicine, KY Children’s Hospital, Department of Pediatrics, Lexington, Kentucky, USA; School of Public Health, Georgia State University, Atlanta, Georgia, USA)**

In series: *Health and Human Development*

Publication Date: 10/12/2021

329 pp.

Hardcover: 978-1-53619-981-9. $230.00

e-book: 978-1-68507-201-8. $230.00

India, officially the Republic of India, is a country in South Asia. It is the seventh-largest country by area, the second-most populous country, and the most populous democracy in the world. In this book we have gathered research papers from India concerned with disability research and prevention issues, health issues, rural health care, childhood immunisation and studies carried out in the slum areas of Delhi. We hope this research will be of interest to the reader.
Mineral Water: From Basic Research to Clinical Applications
Maria João Martins, PhD (Department of Biomedicine, Biochemistry Unit, Faculty of Medicine, University of Porto, Porto, Portugal; i3S-Instituto de Investigação e Inovação em Saúde, University of Porto, Porto, Portugal)

In series: Biochemistry Research Trends
Publication Date: 02/25/2022
300 pp.
Hardcover: 978-1-68507-458-6. $195.00
e-book: 978-1-68507-541-5. $195.00

Mineral Water: From Basic Research to Clinical Applications, written by a multi-disciplinary group of educators, researchers and medical doctors, gathers a timely review on the effects of mineral waters upon several aspects of human biology and pathophysiology, as it gives an overview of how mineral waters may provide a positive impact on different settings, namely health promotion and disease prevention as well as rehabilitation and therapy. A major advantage of this book is the gathering of up-to-date information on the benefits, and associated mechanisms, of mineral waters through different routes of internal and external exposure.

Concepts and classifications of mineral waters are disclosed. The relevance of spa therapies in Chronic Obstructive Pulmonary Disease, otorhinolaryngology, rheumatic diseases and dermatology is addressed. The mitigation of diet-induced acid load by mineral waters consumption and its relevance for bone health is discussed. The importance of mineral waters consumption against metabolic dysfunction through gut microbiota modulation is argued. Modulation of membrane transporters by mineral water is reviewed.

Mineral Water: From Basic Research to Clinical Applications aims to target health professionals (medical doctors, nurses, physiotherapists, nutritionists and dietitians), educators and students (in the aforementioned subject areas) as well as health science researchers (biochemists, biologists and pharmacists), beverage companies and policy-makers.

Phenolic Compounds in Health and Disease
Robert C. Linn

In series: Food Science and Technology
Publication Date: 09/17/2021
223 pp.
Hardcover: 978-1-68507-108-0. $160.00
e-book: 978-1-68507-137-0. $160.00

Phenolic compounds are structures found in plant-based foods that play an important role in regulating health and disease. Accordingly, this book presents seven chapters that explore phenolic compounds from a variety of perspectives. Chapter One addresses the current knowledge about the presence of phenolic compounds in plants, their bioavailability and protective effects of interest for diabetes mellitus. Chapter Two describes the Bignoniaceae family and Handroanthus impetiginosus, as well as the main groups of phenolic compounds reported for this species and their main biological activities. Chapter Three highlights some scientific evidence corroborating the role of polyphenols in the prevention and treatment of cancer. Chapter Four presents the results of a study that indicate L. leucocephala calli are promising biotechnological products for obtaining phenolic compounds in vitro. Chapter Five details a study that assessed the phenolic compound content and antioxidant and antibacterial activities of extracts and fractions of Bauhinia holophylla. Chapter Six evaluates the production of phenolic compounds in cell suspensions of B. variegate. Finally, Chapter Seven provides an insight on the anti-inflammatory activities of galangin through attenuation of allergic inflammation, regulation of PPARγ pathway, inhibition of ERK, NF-kappaB, PI3K/AKT and NLRP3 signaling, interplaying of MAPK signaling cascade, and through activation of Nrf2 signaling in animal models.
Systemic, Cellular and Molecular Mechanisms of Physiological Functions and Their Disorders, Third Book (Proceedings of I. Beritashvili Center for Experimental Biomedicine – 2021)

Nargiz Nachkebia, PhD (Chairwoman of the Scientific Council and Head of the Lab of Neurobiology of Sleep-Wakefulness Cycle, Ivane Beritashvili Center of Experimental Biomedicine, Tbilisi, Georgia; Vice President, Ivane Beritashvili Physiological Society of Georgia, Tbilisi, Georgia) and Nodar P. Mitagvaria, PhD, Dr. of Sci. (Head of the Department of Cerebral Circulation and Metabolism, Ivane Beritashvili Center of Experimental Biomedicine, Tbilisi, Georgia; Advisor to the President, Georgian National Academy of Sciences, Georgia; Professor, Full Member, Georgian National Academy of Sciences, Georgia)
Alternative Therapies

Medicinal Plants: Properties, Uses and Production
Deepak Kumar Semwal, PhD (Assistant Professor, Department of Phytochemistry, Faculty of Biomedical Sciences, Uttarakhand Ayurved University, Dehradun, India)
In series: Herbs and Herbalism
Publication Date: 11/05/2021
321 pp.
Hardcover: 978-1-68507-251-3. $230.00
e-book: 978-1-68507-290-2. $230.00

The present reference book entitled “Medicinal plants: properties, uses and production” is based on the recent developments in the medicinal and aromatic plants sector. The contents provided in the present title are written by field experts from different regions. All the chapters were reviewed by the external reviewers and based on their opinions, necessary modifications have been made. The present book contains eight well-descriptive manuscripts with comprehensive information about the topics.

The first chapter describes the medicinal uses, bioactive constituents and biological activities of the genus Limoniasastrum. The chapter also deals with the ethnopharmacological properties and traditional uses of these plants. Phytochemical analysis of these plants revealed the presence of gallic acid, catechin, and epigallocatechin as major compounds whereas the pharmacological studies showed antioxidant, anti-inflammatory and anti-tumoral activities in different experimental models.

The second chapter covers the therapeutic potential, phytochemicals and natural status of endangered medicinal plants of the Ashtavarga group. These plants are used in the Ayurvedic system of medicine and popularly known as Kakoli, Kshirakakoli, Jeevak, Rishbhak, Meda, Mahameda, Riddhi and Vridhi. These plants are grown in high-altitude regions and currently facing a problem of extinction in their natural habitat and hence considered as rare. Presently, efforts are being continued to cultivate them for their survival as well as to use them in medicine. The present chapter comprises the medicinal and chemical profile of ashtavarga plants together with their proper identification and traditional uses.

The third chapter describes the nutritional products derived from coneflower for athletes. This chapter covers the application of coneflower nutritional products for sportspersons published in the period 2000-2020. It has been noticed that the use of Echinacea supplements is most popular in United States, Canada and the United Kingdom. The use of these supplements is common among professional sportsmen, varsity athletes, as well as children practising different sport disciplines.

The fourth chapter is based on the phytochemical, pharmacological, toxicological and commercial aspects of the henna plant which is the most popular religious plant in Asian countries. The dye of this plant is extensively used for the decoration of skin in the form of temporary tattooing, and also used as hair dye. A chemical compound called lawsonite is the major constituent of this plant which is responsible for the dyeing properties. However, the chemicals added with henna to impart its colour and improve other dyeing properties are dangerous to use and causing contact dermatitis. Although it is a reputed medicine and cosmetic, there is a problem of adulteration in its products available in the market. Many products selling in the market in the name of henna are free from the plant extract and only contain synthetic paraphenylenediamine which causing the allergy.

The fifth chapter deals with selected anticancer molecules found in traditional medicinal plants. Since the current treatments available for cancer are either chemotherapy or radiotherapy that causes serious side effects, thus plant-derived products can be used as an effective and safe treatment for cancers. Various constituents like Vinca alkaloids, podophyllotoxin derivatives, taxanes, camptothecin derivatives and homoharringtonine were found effective against cancers.

The sixth chapter describes molecular aspects of herbal medicine toxicity. Several studies have shown that certain medicinal herbs can be poisonous and may produce a variety of undesirable or adverse reactions that are life-threatening and even deadly. In industrialized countries, the craze for products of natural origin is a relatively recent phenomenon, developed, in particular, in favour of aggressive marketing campaigns inducing in the public mind notions as false as they are dangerous such as the assertion "what is natural is harmless". Several intoxications, often deadly, after herbal treatments have been reported which draws attention to the dangers of excessive use and the no control on this therapeutic model.

The seventh chapter covers the role of novel drug delivery systems in improving the bioavailability of herbal medicines. The herbal world is the soul of the health care system since ancient times because every disease has been curing or managing by herbal medication from that time to today. However, the herbal system of medication suffered from a lack of the required developments, which were necessary demands of time. Today, people are very much conscious about their health and again starting to shift towards herbal medication due to the serious adverse effects of synthetic drugs. Researchers are trying to develop herbal medicines in the form of a novel drug delivery system to improve drug pharmacokinetics and pharmacodynamics along with stability as well as formulation related issues.

The eighth chapter is based on the mathematical modelling and optimization in solid-liquid extractions of bioactive constituents of medicinal plants. In herbal medicine, the most important step in the extraction process that ensures the maximum bioactive potential of a medicinal plant. The efficiency of the extraction process mainly relies upon the extraction conditions and therefore it is crucial to describe the optimal conditions for the selected extraction method. Mathematical modelling and optimisation techniques are extensively used for planning and optimisation of solid-liquid extraction processes.
of bioactives from medicinal plants. Mathematical models provide valuable insight into mechanisms of solid-liquid extraction of bioactives being the main objective optimisation of the extraction process parameters. Overall, the book is a collection of different research areas of medicinal plants. It covers general applications of a particular medicinal plant like henna, a compilation of pharmaceutical properties of a genus like Limoniastrum, a traditional combination like Ashtavarga, nutritional importance of a plant like coneflower, description of bioactive compounds like Vinca alkaloids, the toxicity associated with the herbal treatment, the use of novel drug delivery in improving the pharmacokinetics of a herbal drug and mathematical modelling of bioactives isolated via different extraction techniques. This book will be useful for academicians and researchers working in the areas of herbal medicine, traditional medicine and natural products. The book is also useful for Master and PhD students of various universities.

**SURGERY AND SURGICAL SPECIALTIES**

**Nosocomial Infection in Abdominal Surgery**

Jaime Ruiz-Tovar, MD, PhD (Professor of Surgery, Universidad Alfonso X, Virgen da la Oliva, Madrid, Spain) and Andrés García Marín, MD, PhD (Department of Surgery, Hospital de Hellin, Albacete, Spain; University Alfonso X, Virgen da la Oliva, Madrid, Spain)

In series: Surgery - Procedures, Complications, and Results
Publication Date: 02/15/2022
121 pp.
Softcover: 978-1-68507-603-0. $82.00
e-book: 978-1-68507-666-5. $82.00

Nosocomial infections are frequent complications after abdominal surgery. Most abdominal procedures are clean-contaminated, contaminated, or even dirty procedures, since plenty of microorganisms are able to enter the gastrointestinal and the genitourinary tracts. Nosocomial infections are associated with morbidity and mortality and reduce patients’ quality of life after surgery. Moreover, they prolong hospital stay and altogether represent an economic burden for health services. Despite different guidelines endorsed by scientific societies describing recommendations for preventing and treating nosocomial infections, they still represent a challenge for healthcare staff. The aim of this book is to revise the actual evidence on the different aspects of nosocomial infections after abdominal surgery.

**Total Hip Arthroplasty: Procedures and Potential Complications**

Nemandra Amir Sandiford, MRCS, MRCS Ed, MSc, MFSEM, FFSEM, FRCS (Consultant Orthopaedic Surgeon and Senior Clinical Lecturer, University of Otago, Joint Reconstruction Unit, Southland Hospital, Invercargill, New Zealand)

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Publication Date: 01/21/2022
403 pp.
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This volume presents an up-to-date appraisal of the important issues which are encountered in the practice of modern total hip arthroplasty. The information presented is evidence-based but also contains valuable insights from the contributing authors who are all experts in their fields. This will be of value to practicing surgeons at all levels as well as those in medicolegal practice.
Transplantation

Issues in Kidney Disease – Transplantation
Bhamidipati V. R. Murthy, MD, DM (Selzman Institute for Kidney Health, Section of Nephrology, and Division of Abdominal Transplantation, Department of Surgery, Baylor College of Medicine, Houston, TX, USA) and Stephen Z. Fadem, MD, FACP, FASN (Selzman Institute for Kidney Health, Section of Nephrology and Michael E. DeBakey Veterans Affairs Medical Center, Baylor College of Medicine, Houston, TX, USA)

In series: Issues in Kidney Disease
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This book will appeal to renal fellows, nephrologists, and other physicians involved with kidney transplantation, transplant coordinators, social workers, and other allied health professionals. It brings timely and updated reviews, addresses important controversies in kidney transplantation, and outlines opportunities for future research.

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Publication Date: 12/03/2021
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This book includes six chapters that detail various aspects of women’s health. Chapter One uses a hermeneutic phenomenological method to explore hope in eating disordered women. Chapter Two considers the importance of hope as a mediating factor in the complicated relationships between body shame and eating disorder behavior as well as with substance use/abuse behavior via an Internet survey. Chapter Three examines the influence of six Indigenous Australian sportswomen and their role as sporting role models for women and girls. Chapter Four highlights the research that has been conducted regarding eating disorders in women of color and reviews the unique race and culture-related risk factors that may influence the presence of eating disorder symptoms. Chapter Five deals with the history and definition of food craving, the cognitive event of appetizing targeting, the associations with the diet mentality as a promoter of moral judgment concerning food, and the twelve primary triggers according to the latest data from studies in the field of eating disorders. Finally, Chapter Six focuses on the association between physical activity and menopausal transition from the viewpoint of evolutionary biology and evolutionary medicine.
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