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Medicinal and Aromatic Plants XII comprises 18 chapters. It deals with the distribution, importance, conventional propagation, micropropagation, tissue culture studies, and the in vitro production of important medicinal and pharmaceutical compounds in the following plants: *Artemisia annua*, *Coriandrum sativum*, *Crataegus*, *Dionaea muscipula*, *Hyoscyamus reticulatus*, *Hypericum canariense*, *Leguminosae*, *Malva*, *Ocimum*, *Pergularia tomentosa*, *Phellodendron amurense*, *Sempervivum*, *Solanum aculeatissimum*, *S. chrysotrichum*, *S. kasianum*, *Stephania*, *Trigonella*, and *Vaccinium*. It is tailored to the needs of advanced students, teachers, and research scientists in the fields of pharmacy, plant tissue culture, phytochemistry, biomedical engineering, and plant biotechnology in general.

Comprehensive, thoroughly updated, and expanded, *Neuromuscular Disorders in Clinical Practice, Second Edition* encompasses all disorders of the peripheral nervous system, covering all aspects of neuromuscular diseases from diagnosis to treatment. Mirroring the first book, this two-volume edition is divided into two parts. Part one discusses the approach to neuromuscular disorders, covering

principles and basics, neuromuscular investigations, and assessment and treatment of neurological disorders. Part two then addresses the complete range of specific neuromuscular diseases: neuronopathies, peripheral neuropathies, neuromuscular junction disorders, muscle ion channel disorders, myopathies, and miscellaneous neuromuscular disorders and syndromes. *Neuromuscular Disorders in Clinical Practice, Second Edition* is intended to serve as a comprehensive text for both novice and experienced practitioners. General neurologists as well as specialists in neuromuscular medicine and trainees in neuromuscular medicine, clinical neurophysiology and electromyography should find this book inclusive, comprehensive, practical and highly clinically focused. Additionally, specialists in physical medicine and rehabilitation, rheumatology, neurosurgery, and orthopedics will find the book of great value in their practice.

The incidence of gluten-related disorders (GRDs) continues to increase and its global prevalence is estimated affect to 5% of the population. s. Celiac disease (CD), Dermatitis Herpetiformis (DH), Gluten Ataxia (GA), wheat allergy (WA), and Non-Celiac Gluten Sensitivity (NCGS) are the five major GRDs that present with a wide range of clinical manifestations. They are manifested by symptoms of gastrointestinal tract disorders, as well as

hematological, dermatological endocrinological, gynecological, rheumatological and nervous system. NCGS is a term that is used to describe individuals who are not affected by celiac disease or wheat allergy, yet they have intestinal and/or extra-intestinal symptoms related to gluten ingestion with improvement of their symptoms upon withdrawing gluten from their diet. It is believed that represents some heterogeneous groups with different subgroups characterized by different etiologies, clinical histories and clinical courses. There also appears to be an overlap between NCGS and irritable bowel syndrome (IBS). There is a need for establishing strict criteria for diagnosing NCGS. The absence of validated biomarkers remains a significant limitation for research studies on NCGS. New evidence shows that a gluten-free diet may be beneficial for some patients with gastrointestinal symptoms, such as those symptoms commonly found in patients with IBS.

The COVID-19 pandemic has increased the focus on health informatics and healthcare technology for policy makers and healthcare professionals worldwide. This book contains the 110 papers (from 160 submissions) accepted for the 18th annual International Conference on Informatics, Management, and Technology in Healthcare (ICIMTH 2020), held virtually in Athens, Greece, from 3 – 5 July 2020. The conference attracts

scientists working in the field of Biomedical and Health Informatics from all continents, and this year it was held as a Virtual Conference, by means of teleconferencing, due to the COVID-19 pandemic and the consequent lockdown in many countries around the world. The call for papers for the conference started in December 2019, when signs of the new virus infection were not yet evident, so early submissions were on the usual topics as announced. But papers submitted after mid-March were mostly focused on the first results of the pandemic analysis with respect to informatics in different countries and with different perspectives of the spread of the virus and its influence on public health across the world. This book therefore includes papers on the topic of the COVID-19 pandemic in relation to informatics reporting from hospitals and institutions from around the world, including South Korea, Europe, and the USA. The book encompasses the field of biomedical and health informatics in a very broad framework, and the timely inclusion of papers on the current pandemic will make it of particular interest to all those involved in the provision of healthcare everywhere.

Digital health and medical informatics have grown in importance in recent years, and have now become central to the provision of effective healthcare around the world. This book presents the proceedings of the 30th Medical Informatics Europe

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conference (MIE). This edition of the conference, hosted by the European Federation for Medical Informatics (EFMI) since the 1970s, was due to be held in Geneva, Switzerland in April 2020, but as a result of measures to prevent the spread of the Covid19 pandemic, the conference itself had to be cancelled. Nevertheless, because this collection of papers offers a wealth of knowledge and experience across the full spectrum of digital health and medicine, it was decided to publish the submissions accepted in the review process and confirmed by the Scientific Program Committee for publication, and these are published here as planned. The 232 papers are themed under 6 section headings: biomedical data, tools and methods; supporting care delivery; health and prevention; precision medicine and public health; human factors and citizen centered digital health; and ethics, legal and societal aspects. A 7th section deals with the Swiss personalized health network, and section 8 includes the 125 posters accepted for the conference. Offering an overview of current trends and developments in digital health and medical informatics, the book provides a valuable information resource for researchers and health practitioners alike.

The Novartis Foundation Series is a popular collection of the proceedings from Novartis Foundation Symposia, in which groups of leading

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scientists from a range of topics across biology, chemistry and medicine assembled to present papers and discuss results. The Novartis Foundation, originally known as the Ciba Foundation, is well known to scientists and clinicians around the world.

July 31-Aug 02, 2017 Milan, Italy Key Topics : Neuroimmunology and Neuroinflammation, Molecular Neuropharmacology, Clinical Neuropharmacology, Psychopharmacology, Neurochemical Transmission, Behavioral and Addiction Neuropharmacology, Neurotechnology, Neuroendocrinology, Alzheimer's Disease and Dementia, Parkinson's Disease, Neuroethics, Future Aspects of Neuropharmacology, Case Study Reports, Neural Stem Cell, Presenting contributions by 66 experts representing 13 countries, Volume 10 of the series Stem Cells and Cancer Stem Cells synthesizes current understanding of the causes, diagnosis, and therapy of major human diseases and debilitating tissue and organ injuries, using cell-based treatment. This volume presents contemporary research into generation, preservation, and uses of stem cells in fighting disease and tissue/organ injuries. The contents of the volume are organized into five sections. Mesenchymal Stem Cells section includes chapters on the use of stem cells in bone regeneration, studies and trials of stem cells in

autoimmune diseases, and differences between adipose tissue-derived mesenchymal stem cells and bone marrow-derived mesenchymal stem cells as regulators of immune response. Induced Pluripotent Stem Cells section offers chapters on drug discovery using human iPSC-based disease models, and on generation of antigen-specific lymphocytes from iPSCs. Neural Cells and Neural Stem Cells section discusses use of bacterial artificial chromosomes in the genetic identification of stem cell-derived neural cell types, and use of moderate low temperature to preserve the stemness of neural stem cells. The section, Role of Stem Cells in Disease, discusses stem cell support in high-dose chemotherapy of Non-Hodgkin's Lymphomas; potential targets for drug resistant leukemic stem cells, bone marrow stem cell therapies for diabetes mellitus. This section also discusses the use of stem cells in treating thyroid, breast and bone cancers, hemophilia and Parkinson's Disease. The section, Stem Cell Transplantation, includes chapters on reducing fungal infection in allogeneic stem cell transplantation patients, use of Busulfan/Fludarabine for conditioning in haematopoietic stem cell transplantation, and interleukin-7 receptor alpha polymorphisms in allogeneic stem cell transplantation. The editor, M.A. Hayat, is a Distinguished Professor in the Department of Biological Sciences at Kean University, Union, New

Jersey, USA.

Frontiers in Anti-Cancer Drug Discovery is an Ebook series devoted to publishing the latest and the most important advances in Anti-Cancer drug design and discovery. Eminent scientists write contributions on all areas of rational drug design and drug discovery including medicinal chemistry, in-silico drug design, combinatorial chemistry, high-throughput screening, drug targets, recent important patents, and structure-activity relationships. The Ebook series should prove to be of interest to all pharmaceutical scientists involved in research in Anti-Cancer drug design and discovery. Each volume is devoted to the major advances in Anti-Cancer drug design and discovery. The Ebook series is essential reading to all scientists involved in drug design and discovery who wish to keep abreast of rapid and important developments in the field.

In this special issue, reviews of various aspects of HD therapy were submitted from all over the world. In particular, reviews for recent advances in this area from leading experts have been contributed to the book Hemodialysis. In order to deliver optimal patient care, nephrologists need to understand and be highly knowledgeable in the mechanisms of multiple aspects of hemodialysis therapy. Moreover, this book will provide an important source of information for beginners and experts, basic scientists and physicians who want to have a true update on current clinical practice in hemodialysis.

We are proud to announce that this book is joint winner of the EHMA Baxter Award 2007. "A genuinely fantastic

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resource; such a rare text that provides such factual information for students and lecturers. A rich review of the subject areas from across Europe. Fantastic text." Chris Kelly, Programme Leader, Bournemouth University "Mental Health Policy and Practice Across Europe is a fascinating, complicated volume that looks at one of the key dimensions of contemporary mental health policy development in Europe — the role of the European Union (EU)." Medicine Weekly In much of Europe it remains taboo to discuss the challenges that poor mental health raises for governments, societies and particularly for people with mental health problems themselves. This book maps the current state of policy, service provision and funding for mental health care across Europe, taking into account the differing historical contexts that have shaped both the development and delivery of services. A holistic approach is adopted that aims to assess the influence on mental health of environmental factors such as housing, poverty, employment, social justice and displacement. Covering a wide range of policy issues, the book: Examines the legal rights of people with mental health problems Addresses the impact of stigma, social exclusion and discrimination Reviews the role of users and their families in the development of mental health services and policy Reflects on approaches to reform and on the future development of services Evaluates opportunities for the rehabilitation of people with mental health problems Discusses the financing and organisation of mental health systems Reflects on approaches to reform and the future development of services Mental Health Policy and Practice Across

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Europe is key reading for policy makers, professionals involved in the delivery of health and social care services, voluntary agencies, non-governmental organizations, academics and students of health policy. Contributors: Francesco Amaddeo, University of Verona, Italy; Peter Anderson, Department of Primary Care, University of Oxford; Robert Anderson, Research Director, European Foundation for the Improvement of Living and Working ; Terry Brugha, University of Leicester; Peter Bower, National Primary Care Research and Development Centre, University of Manchestere; Lorenzo Burti, University of Verona, Italy; Kathryn Berzins, Claire Curran; Paul Cutler, The Hamlet Trust; Natalie Drew, Dept of Mental Health and Substance Abuse, World Health Organization, Geneva; Angelo Fioritti, University of Bologna, Italy; Michelle Funk, Dept of Mental Health and Substance Abuse, World Health Organization, Geneva; Simon Gilbody, Department of Psychiatry, University of Leeds; Vidar Halsteinli, SINTEF, Oslo, Norway; Robert Hayward, The Hamlet Trust; Rachel Jenkins, WHO Collaborating Centre, Institute of Psychiatry, Kings College, London; Heinz Katschnig, University of Vienna, Austria; Robert Keukens, Geneva Initiative on Psychiatry, Hilversum, The Netherlands; Susan Kirkwood, European Federation of Associations of Families of People with Mental Illness, Belgium; Martin Knapp, Director, PSSRU and LSE Health and Social Care, London School of Economics and Political Science, London; Viviane Kovess, MGEN, Paris; Eva Jane Llopis, Prevention Research Centre, Academic Centre for Social Sciences and Department of Clinical

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Netherlands; Ingrid Zechmeister, University of Vienna

Many physicians and patients do not believe that dermatology involves life-threatening situations. However, there are many emergencies that the dermatologist needs to address and many cutaneous diseases in the emergency room that require rapid dermatologic consultation. The dermatologist is frequently the first physician to examine these patients before a hospital admission, and also the first to identify a critical situation, stabilize the patient, and choose urgent and appropriate intervention. The first chapters of this book are directed toward those dermatologists who care for hospitalized patients with severe and dangerous skin diseases. Later chapters are intended for all physicians, including dermatologists, who wish to hone their diagnostic skills, expand their knowledge and understanding of pathological events, and learn treatment options available for acute life-threatening skin diseases. This book brings together top dermatologists around the world to address the complicated and multifaceted field of dermatologic emergencies for the practising dermatologist and emergency physician. This practical book aims to cover the whole scope of clinical endocrinology, including both common and selected rare but important diseases, with an emphasis on practical clinical management. A number of different questions and problems in clinical routine are discussed in this book in an unconventional format. Each topic begins with the presentation of a typical clinical case, and then the topic is approached in a question and answer format linked to the clinical case presented,

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highlighting the most important questions in diagnosis, differential diagnosis and therapy. Numerous figures and tables are included to help understanding. The book is chiefly intended for doctors in training (preparing for boarding exam in endocrinology or internal medicine), but also for established clinicians who want to broaden or refresh their skills. University students of medicine can also find this book interesting.

This book features papers from workshops at the 10th International Conference on Methodologies and Intelligent Systems for Technology Enhanced Learning, which was hosted by the University of L'Aquila (Italy) from 17th to 19th June 2020. The workshops provided participants with the opportunity to present and discuss novel research ideas on emerging topics complementing the main conference. They particularly focused on multi-disciplinary and transversal aspects such as TEL in nursing education programs, social and personal computing for web-supported learning communities, interactive environments and emerging technologies for eLearning, and TEL for future citizens.

This book describes the relationship of the skin with cardiovascular disease. It details the variety of genetic, autoimmune, metabolic and endocrine factors that link the two disciplines. Recognition of one sign or symptom in dermatology can lead to the investigation and discovery of an important related cardiac condition, the recognition of which is important to prevent cardiovascular complications. Similarly, a cardiac condition may be related to an underlying skin condition that requires treatment. Genetic examples of such

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instances included within the book include: pseudoxanthoma elasticum, epidermolysis bullosa with desmosome defects and plectin defects; Marfan syndrome; Autoimmune conditions include vasculitis, sarcoidosis, lupus; metabolic conditions include insulin resistance, eruptive xanthomas with hypertriglyceridemias and elevated cholesterol; endocrine disorders include thyroid acropachy with atrial fibrillation; insulin resistance with coronary artery disease and psoriasis or hidradenitis suppurativa. *Skin and the Heart* reviews the effects of genetic, autoimmune and endocrine diseases with connections between skin and heart. It is therefore a key reference for all practitioners and researchers working in both disciplines.

Advances in Sorbitol Research and Application: 2013 Edition is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about ZZZAdditional Research in a concise format. The editors have built *Advances in Sorbitol Research and Application: 2013 Edition* on the vast information databases of ScholarlyNews.™ You can expect the information about ZZZAdditional Research in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of *Advances in Sorbitol Research and Application: 2013 Edition* has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available

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"This volume includes contributions about the effect of natural compounds on cancer cells as well as on neurodegenerative diseases. More specifically, natural compounds are also described as inducers of cell death. Topics related to diet in health, disease, and inflammation linked to cancer are also discussed."--Pref.

Beer in Health and Disease Prevention is the single comprehensive volume needed to understand beer and beer-related science. Presenting both the concerns and problems of beer consumption as well as the emerging evidence of benefit, this book offers a balanced view of today's findings and the potential of tomorrow's research. Just as wine in moderation has been proposed to promote health, research is showing that beer – and the ingredients in beer – can have similar impact on improving health, and in some instances preventing disease. This book addresses the impact of beer and beer ingredients on cancers, cardiovascular disease, anti-oxidant benefits, and other health related concerns. It offers a holistic view from beer brewing to the isolation of beer-related compounds. It contains self-contained chapters written by subject matter experts. This book is recommended for scientists and researchers from

a variety of fields and industries from beer production to health-care professionals. Winner of the 2009 Best Drinks and Health Book in the World - Gourmand World Cookbook Awards The most comprehensive coverage of the broad range of topics related to the role of beer and beer ingredients in health Addresses the impact of beer and beer ingredients on cancers, cardiovascular disease, anti-oxidant benefits, and other health related concerns Presents a holistic view from beer brewing to the isolation of beer-related compounds Appropriate for scientists and researchers from a variety of fields and industries from beer production to health-care professionals Consistent organization of each chapter provides easy-access to key points and summaries Self-contained chapters written by subject matter experts

This volume includes the lectures and selected posters on different aspects of biological effects of EMF, presented at the NATO ADVANCED RESEARCH WORKSHOP “The mechanisms of biological effect Extremely High Power Pulses (EHPP)” (3-5 March 2005) and the UNESCO/WHO/IUPAB Seminar “Molecular and Cellular Mechanisms of Biological Effects of EMF” (1-2 March 2005) that took place in Yerevan, Armenia. The gracious support of several international organizations made possible to bring together 47 scientists, engineers, physicians and

policy makers from 21 countries from Europe, North and South America, Asia. The Capital of Armenia, Yerevan, provided an excellent opportunity for discussions of the experimental data and theoretical models of EMF effect on various levels, starting from cell aqua bathing medium to the whole organism, including the human, applying multidisciplinary approaches. The continuous increase of the number of man made EMF sources leads to dramatic changes in the spectrum of EMF in the biosphere. During the last two decades the public concern about potential hazard of EMF generated by power and distribution lines, as well as mobile communications and base stations have initiated serious public concern and has triggered the attention of the WHO, which reflected in the EMF project of harmonization of standards. At the same time, contemporary medicine largely uses EMF diagnostic methods. The beneficial effects of EMF are complemented with a large scale of EMF therapeutic modalities used in a number of countries, helping millions of people.

An authoritative overview of contemporary approaches to integrative skin health The popularity of integrative medical treatment of skin disorders has increased significantly in recent years—requiring practicing clinicians to keep pace with continuing developments in dermatological research and methods. Advances in Integrative Dermatology

offers a comprehensive survey of this dynamic field, providing up-to-date information on both preventative and therapeutic approaches to skin health.

Combining clinical medicine with complimentary treatment plans, integrative dermatology provides an innovative perspective to individual patient care. This essential text explores new research in areas including the effects of stress and pollution on the skin, the importance of high-quality sleep, complementary methods of averting skin conditions, and more. Recognizing the impact skin disorders have on physiological, psychological, and emotional health, editors Katlein Frana and Torello Lotti illustrate key components of inclusive skin health strategies, such as therapeutic diets and nutritional supplements, topical botanicals, and other complementary therapies. Filling a significant gap in current literature on integrative dermatology, this valuable resource: Answers the common questions asked by patients in real-world dermatology practices Addresses pervasive misconceptions of integrative dermatological methods and principles with evidence-based review of current practices Examines contemporary research in the diagnosis and treatment of dermatological disorders Presents comprehensive treatment options for a wide range of conditions such as rosacea, melanoma, and psoriasis Advances in Integrative Dermatology is an indispensable volume for physicians seeking to

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incorporate holistic techniques into their practices, expand their knowledge of integrative medicine, and provide the best possible care for their patients. The Ras superfamily (>150 human members) encompasses Ras GTPases involved in cell proliferation, Rho GTPases involved in regulating the cytoskeleton, Rab GTPases involved in membrane targeting/fusion and a group of GTPases including Sar1, Arf, Arl and dynamin involved in vesicle budding/fission. These GTPases act as molecular switches and their activities are controlled by a large number of regulatory molecules that affect either GTP loading (guanine nucleotide exchange factors or GEFs) or GTP hydrolysis (GTPase activating proteins or GAPs). In their active state, they interact with a continually increasing, functionally complex array of downstream effectors. Since the last Methods in Enzymology volume on this topic in 2000, Rho GTPases have continued to receive a huge amount of attention. The human genome sequence has revealed the full extent of the Rho GEF and Rho GAP families (over 80 members for each) and the challenge of identifying the molecular interactions and cellular pathways influenced by each of these regulators is a daunting prospect. This new volume, *Regulators and Effectors of Small GTPases: Rho Family*, describes some of the methods currently being used to examine Rho family GTPase regulation at the biochemical and cellular

level. Describes the methods currently being used to examine Rho family GTPase regulation at the biochemical and cellular levels Includes new imaging techniques that revolutionize the ability to visualize GTPase activities Over 150 international contributors

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This guide to dermatological treatments provides concise yet comprehensive, up-to-date overviews of treatment guidelines and pearls for a plethora of skin

diseases. It is divided into three main sections that address the many different skin diseases, the drugs available for dermatological treatments, and the various methods applied in dermatology, including fillers, botulinum toxin, lasers, dermoscopy, cryosurgery, and electrosurgery. Each skin disease-focused chapter describes current treatments while also providing a brief synopsis of etiology and clinical presentation. Treatment indications and contraindications, modes of action, and dosages are clearly identified. This third edition of the European Handbook of Dermatological Treatments has been extensively revised to reflect the advances of the past decade, including biologic agents for psoriasis, also used as promising off-label treatments in other skin diseases, targeted agents for malignant melanoma and basal cell carcinoma, and new treatment modalities for rosacea, acne, atopic dermatitis, and urticaria, to name but a few. The successful easy-to-use format is retained in this new edition, which is enriched with clinical photos that will make reading a pleasurable as well as a learning experience.

For several years now, both eHealth applications and digitalization have been seen as fundamental to the new era of health informatics and public health. The current pandemic situation has also highlighted the importance of medical informatics for the scientific process of evidence-based reasoning and

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decision making at all levels of healthcare. This book presents the accepted full papers, short papers, and poster papers delivered as part of the 31st Medical Informatics in Europe Conference (MIE 2021), held virtually from 29-31 May 2021. MIE 2021 was originally due to be held in Athens, Greece, but due to the continuing pandemic situation, the conference was held as a virtual event. The 261 papers included here are grouped into 7 chapters: biomedical data, tools and methods; supporting care delivery; health and prevention; precision medicine and public health; human factors and citizen centered digital health; ethics, legal and societal aspects; and posters. Providing a state-of-the-art overview of medical informatics from around the world, the book will be of interest to all those working with eHealth applications and digitalization to improve the delivery of healthcare today.

Immunoregulation in Health and Disease, edited by Lukic, Colic, Mostarica-Stojkovic and Cuperlovic is a multi-authored volume covering the field of Immunoregulation, and will be essential reading for all researchers working in Immunology. Each section includes at least 10 papers contributed by experts from around the World, and covers in detail the wealth of knowledge relating to immunoregulation, both in health and disease. This book will provide an invaluable overview of immune system behaviour. The book is divided into four sections: Regulatory,

effector, and accessory cells of the immune response
Molecular and cellular immunoregulatory mechanisms
Hypersensitivity and autoimmunity
Host reactivity to graft, tumour and infection

This book is a printed edition of the Special Issue "A Commemorative Issue in Honor of Professor Nick Hadjiliadis: Metal Complex Interactions with Nucleic Acids and/or DNA" that was published in IJMS

The pace of globalization has significantly accelerated since the end of the Cold War Era in 1989. These changes profoundly affected health care systems worldwide. Health policy makers increasingly started facing new harsh challenges in their uneasy task to provide universal health coverage and decent equity of access to medical services. Among the most prominent demand-side issues are extended longevity joined with population aging, rise of non-communicable diseases, and growing patient expectations. Supply-side causes are gains in societal welfare and living standards, technological innovation in medicine and continuing rapid urbanization in developing world regions.

Successful insurance-based risk sharing agreements made drug dispensing and medical service provision cheap or virtually free at the point of consumption in most OECD and many middle-income countries.

Coupled with massive build-up of workforce capacities and strengthening of primary care and hospital networks, all these factors contributed to the

“supplier induced demand” phenomenon. There is straightforward historical evidence of long-term growth in pharmaceutical and overall health spending both in absolute and GDP% terms worldwide. The accumulated constraints deriving from skyrocketing costs of care were felt in many areas of clinical medicine even among the richest societies. Cardinal examples of expensive and hardly affordable therapeutic areas are orphan drugs indicated to treat rare diseases and targeted biologicals used in autoimmune disorders and cancer. Last but not least, is troubled and frequently denied access to even essential generic pharmaceuticals still taking place in many nations. This appears to be particularly the case among the world's poor and under-served citizens residing in rural and suburban areas of low- and middle-income countries. To a large extent, these difficulties are worsened by lack of evidence-based resource allocation strategies and less sustainable financing strategies.

Practical Tips in Urology is a compact, illustrated reference which provides the reader with practical tips and advice in managing day-to-day urological issues encountered in a clinical setting. This book draws on practical experience and offers useful information that is often lacking in didactic textbooks of urology and in journal articles. Practical Tips in Urology provides tips in dealing with urological

emergencies, elective surgery and common outpatient consultation problems, among other things. Written by experts in the field, *Practical Tips in Urology* is key reading for all practicing urologists and residents in training.

The incidence of chronic inflammatory and autoimmune diseases is steadily increasing. Inflammatory bowel disease (IBD) is one example of a chronic inflammatory disease, which primarily affects the intestine but may also affect extraintestinal organs. The exact pathogenesis of IBD is currently unknown. However, it is clear that the pathogenesis is complex, involving barrier defects, changes in the intestinal microbiome, and chronic immune activation. This book aims to summarize basic aspects of these complex interactions between barrier function, microbiome, and the immune system. Of note, there is currently no cure for IBD. However, several therapies have evolved in the last years, which are overall able to at least temporarily-suppress IBD. These therapies and the underlying mechanism are discussed.

This unique textbook deals with the variations in the causes, presentations and treatment of neurological disease throughout human populations. *International Neurology* is an indispensable guide to the full range of neurological conditions you will see in your ever-changing patient population. Comprehensive coverage of neurological diseases and disorders

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with a clinical approach to diagnosis, treatment and management Truly international authorship distils expert knowledge from around the world Succinct, bite-sized, templated chapters allow for rapid clinical referral Further reading recommendations for each chapter guide readers requiring more depth of information Endorsed by the World Federation of Neurology

This book, written by experts from across the world, provides comprehensive coverage of acne and rosacea, focusing in particular on pathogenesis and treatment but also considering clinical aspects, prognostic factors, and impacts on quality of life. Both standard knowledge and important, clinically relevant insights that have emerged over the past decade are presented with the goal of assisting the reader in understanding these diseases and improving treatment outcome. It is explained how high-level research has recently given rise to a variety of new concepts in etiology and treatment, and emerging trends are also discussed. The book is in a reader-friendly format that highlights core messages with a very practical and clinical focus. Pathogenesis and Treatment of Acne and Rosacea will be an indispensable reference for all physicians who care for patients with acne or rosacea and for scientists working in the field.

This Encyclopedia of Biotechnology is a component of the global Encyclopedia of Life Support Systems

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(EOLSS), which is an integrated compendium of twenty one Encyclopedias. Biotechnology draws on the pure biological sciences (genetics, animal cell culture, molecular biology, microbiology, biochemistry, embryology, cell biology) and in many instances is also dependent on knowledge and methods from outside the sphere of biology (chemical engineering, bioprocess engineering, information technology, biorobotics). This 15-volume set contains several chapters, each of size 5000-30000 words, with perspectives, applications and extensive illustrations. It carries state-of-the-art knowledge in the field and is aimed, by virtue of the several applications, at the following five major target audiences: University and College Students, Educators, Professional Practitioners, Research Personnel and Policy Analysts, Managers, and Decision Makers and NGOs.

This comprehensive volume covers all aspects of nutrition in different scenarios of maternal diabetes, including the Type 1 or Type 2 diabetic mother, gestational diabetes, and postpartum diabetes. The volumes offer a comprehensive, yet thorough, overview of the subject, from the prevalence, risk factors, and insulin requirements of the mother; to possible outcomes and effects on the infant; to dietary advice in general and specific scenarios; and information on macro and micronutrient supplements. There is also a special section on

international perspectives on maternal diabetes, with ten chapters that each focus on a different country. *Nutrition and Diet in Maternal Diabetes: An Evidence-Based Approach* offers an overview of the Type 1 and type 2 diabetic mother, maternal and offspring aspects of gestation diabetes, and breastfeeding and maternal gestational diabetes.?

This broad and thought-provoking volume provides an overview of recent intellectual and scientific advances that bridge the gap between psychiatry and neuroscience, offering a wide range of penetrating insights in both disciplines. The third volume on the topic in the last several years from a varying panel of international experts, this title identifies the borders, trends and implications in both fields today and goes beyond that into related disciplines to seek out connections and influences. Similar to its two Update book predecessors, *Psychiatry and Neuroscience – Volume III* presents the current state-of-the-art in the main disciplines – psychiatry and neuroscience – and attempts to provide deeper comprehension or explication of the normal and diseased human mind, its biological correlates and its biographical and existential implications. This engaging volume continues the previous style of exploring different disciplines and trying to integrate disciplinary evidence from varying points of view in an organic manner. Developed for clinicians and researchers in the fields of medicine,

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psychiatry, psychology and biology, this third volume also will be of great interest to students and university professors of diverse disciplines.

March 25-26, 2019 Rome, Italy Physiotherapy Techniques and Exercises, Rehabilitation Methods, Neurological

Physiotherapy, Neurorehabilitation, Manual Physiotherapies, Physiotherapy methods and Instrumentation, Physiotherapy Management and Neurorehabilitation, Sports medicine, Pediatric Physiotherapy, Yoga & Fitness as Physical Therapy, Acupuncture, Arthritis, Geriatric Rehabilitation, Sports & Physiotherapy, Nursing Physiotherapy, Physiotherapy in Treatment & Care, Herbal physical therapy medicine, Traditional physical therapy medicine, Chinese physical therapy medicine, Complementary physical therapy medicine, Integrative physical therapy medicine, Advancements in

Physiotherapy, Physiotherapy in Treatment & Care, Chest and Respiratory physiotherapy,

The potential benefits of plants and plant extracts in the treatment and possible prevention of many leading health concerns are historically well known and are becoming more widely studied and recognized within the medical community. It is these studies that led to the first compilation of new research developments, identifying new extracts and uses for plants in disease prevention and treatment.

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This major comprehensive reference work contains contributions from more than 150 clinical and academic experts covering topics such as treatments of cancer and cardiovascular diseases, as well as historical plant use by indigenous people supported by recent scientific studies. Authors review the safety and efficacy of botanical treatments while identifying the sources, historical supportive data and mechanisms of action for emerging treatments. Written by researchers currently carrying out identification and biomedical testing, this is the most up to date text on the latest research from all over the world. It is an essential resource for health care practitioners and herbalists, as well as researcher, students and professionals in botany and alternative medicine.

This open access book offers essential information on values-based practice (VBP): the clinical skills involved, teamwork and person-centered care, links between values and evidence, and the importance of partnerships in shared decision-making. Different cultures have different values; for example, partnership in decision-making looks very different, from the highly individualized perspective of European and North American cultures to the collective and family-oriented perspectives common in South East Asia. In turn, African cultures offer yet another perspective, one that falls between these two extremes (called batho pele). The book will

benefit everyone concerned with the practical challenges of delivering mental health services. Accordingly, all contributions are developed on the basis of case vignettes, and cover a range of situations in which values underlie tensions or uncertainties regarding how to proceed in clinical practice. Examples include the patient's autonomy and best interest, the physician's commitment to establishing high standards of clinical governance, clinical versus community best interest, institutional versus clinical interests, patients insisting on medically unsound but legal treatments etc. Thus far, VBP publications have mainly dealt with clinical scenarios involving individual values (of clinicians and patients). Our objective with this book is to develop a model of VBP that is culturally much broader in scope. As such, it offers a vital resource for mental health stakeholders in an increasingly inter-connected world. It also offers opportunities for cross-learning in values-based practice between cultures with very different clinical care traditions. Comprising 26 chapters, this volume deals with the genetic transformation of medicinal plants. It describes methods to obtain plants resistant to insects, diseases, herbicides, and plants with an increased production of compounds of medicinal and pharmaceutical importance. The plant species included are *Ajuga reptans*, *Anthemis nobilis*, *Astragalus* spp., *Atropa belladonna*, *Catharanthus*

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roseus, *Datura* spp., *Duboisia leichhardtii*, *Fagopyrum* spp., *Glycyrrhiza uralensis*, *Lobelia* spp., *Papaver somniferum*, *Panax ginseng*, *Peganum hamala*, *Perezia* spp., *Pimpinella anisum*, *Phyllanthus niruri*, *Salvia miltiorrhiza*, *Scoparia dulcis*, *Scutellaria baicalensis*, *Serratula tinctoria*, *Solanum aculeatissimum*, *Solanum commersonii*, *Swainsona galegifolia*, tobacco, and *Vinca minor*. The book is of special interest to advanced students, teachers, and researchers in the fields of pharmacy, plant tissue culture, phytochemistry, molecular biology, biomedical engineering, and plant biotechnology in general.

This book presents contributions from leading international experts in the field of nephrology. Each chapter is independent and discusses nephrology in the author's country, including the history of nephrology development, kidney disease epidemiology, clinical nephrology, dialysis practice in acute and chronic renal failure settings (hemodialysis, hemodiafiltration, peritoneal dialysis), pediatric nephrology, and kidney transplantation. In addition, the book covers topics such as the job market for nephrologists, reimbursement, nephrology education, and the number of professionals in the private and public sectors. With 53 chapters and more than 300 authors from all continents offering a unique perspective on nephrology practice, it provides a much-needed information source for

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nephrologists around the globe. The reader will be able to travel through “Nephrology Worldwide”, a pleasant reading experience with not only relevant information and updated data, but also a comprehensive look at the history, countries’ peculiarities, and a critical analysis of the scenario of nephrology and renal replacement therapy. A valuable resource for healthcare professionals and other stakeholders interested in learning about the status quo of Nephrology Worldwide. “Both the failings and the successes are outlined in a way that should make this book a compelling read, not just for the well-informed renal physician, but also for planners and policy makers whose thinking and actions are integral to the way we practice medicine.” - Sir Peter J. Ratcliffe, Nephrologist and 2019 Nobel Prize Winner More information on the Nephrology Worldwide initiative can be found at www.nephrologyworldwide.com.

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