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Clinical Application of Repurposed Drugs, Volume 207 in the Progress in Molecular Biology and Translational Science series, highlights new advances in the field, with this new volume presenting interesting chapters on Drug repurposing for viral disease, Drug repurposing for bacterial infections, Drug repurposing for parasitic protozoan diseases, Drug repurposing for fungal infections, Drug repurposing for treating anxiety and depression, Drug repurposing for personalized medicine, Drug repurposing for cancer, Drug Repurposing: A multi targeted approach to treat cardiac disease from existing classical drugs to modern drug discovery, and much more. Additional chapters cover Drug repurposing in MASLD and MASH-cirrhosis: targets and treatment approaches based on pathways analysis, Drug repurposing for respiratory infections, Drug repurposing for rare disease, Drug repurposing for neurological disorders, Drug repurposing for metabolic disorders: scientific, technological and economic issues, Drug repurposing for regenerative medicine and cosmetics: scientific, technological and economic issues, and Exploring Cutting-Edge Omics-Driven Strategies for Drug Repurposing – An Insight into the Tools of the Trade. Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Progress in Molecular Biology and Translational Science series Includes the latest information on Clinical Applications of Repurposed Drugs As a movement, transhumanism aims to upgrade the human body through science, constantly pushing back the limits of a person by using cutting-edge technologies to fix the human body and upgrade it beyond its natural abilities. Transhumanism can not only change human habits, but it can also change learning practices. By improving human learning, it improves the human organism beyond natural and biological limits. The Handbook of Research on Learning in the Age of Transhumanism is an essential research publication that discusses global values, norms, and ethics that relate to the diverse needs of learners in the digital world and addresses future priorities and needs for transhumanism. The book will identify and scrutinize the needs of learners in the age of transhumanism and examine best practices for transhumanist leaders in learning. Featuring topics such as cybernetics, pedagogy, and sociology, this book is ideal for educators, trainers, instructional designers, curriculum developers, professionals, researchers, academicians, policymakers, and librarians. This book reports updated data from the literature on potential drug-drug interactions occurring between drugs used to treat each individual disease of

the metabolic syndrome. The manual is focused on metabolic syndrome drugs. Possible drug-drug interactions and their potential mechanisms are summarised and discussed. Chemical characteristics and mechanisms of action of each drug are also briefly described. Some new anti-obesity, anti-diabetes, lipid lowering and anti-hypertensive drugs were also reported and briefly discussed. This book establishes and specifies a rigorously scientific and clinically valid basis for nonpharmaceutical approaches to many common diseases and disorders found in clinical settings. It includes lifestyle and supplement recommendations for beginning and maintaining autonomic nervous system and mitochondrial health and wellness. The book is organized around a six-pronged mind-body wellness program and contains a series of clinical applications and frequently asked questions. The physiologic need and clinical benefit and synergism of all six aspects working together are detailed, including the underlying biochemistry, with exhaustive references to statistically significant and clinically relevant studies. The book covers a range of clinical disorders, including anxiety, arrhythmia, atherosclerosis, bipolar disease, dementia, depression, fatigue, fibromyalgia, heart diseases, hypertension, mast cell disorder, migraine, and PTSD. *Clinical Autonomic and Mitochondrial Disorders: Diagnosis, Prevention, and Treatment for Mind-Body Wellness* is an essential resource for physicians, residents, fellows, medical students, and researchers in cardiology, primary care, neurology, endocrinology, psychiatry, and integrative and functional medicine. It provides therapy options to the indications and diagnoses published in the authors' book *Clinical Autonomic Dysfunction* (Springer, 2014). Each year approximately 1.5 million people are diagnosed with cancer in the United States, most of whom inevitably face difficult decisions concerning their course of care. Recognizing challenges associated with cancer treatment, the National Coalition for Cancer Survivorship (NCCS) and the National Cancer Policy Forum (NCPF) of the Institute of Medicine (IOM) hosted a public workshop in Washington, DC on February 28 and March 1, 2011, entitled *Patient-Centered Cancer Treatment Planning: Improving the Quality of Oncology Care*. This workshop summary includes an overview of patient-centered care and cancer treatment planning, as well as subject areas on shared decision making, communication in the cancer care setting, and patient experiences with cancer treatment. Best practices, models of treatment planning, and tools to facilitate their use are also discussed, along with policy changes that may promote patient-centeredness by enhancing patient's

understanding of and commitment to the goals of treatment through shared decision-making process with their healthcare team from the moment of diagnosis onward. Moreover, Patient-Centered Cancer Treatment Planning emphasizes treatment planning for patients with cancer at the time diagnosis. The Fourth IIT traces the historical evolution of the Indian Institute of Technology Kanpur (IITK), established fourth in the chronological ladder of IITs after the institutes at Kharagpur, Bombay and Madras. The early beginnings of IITK are explored, with the appointment of Dr P.K. Kelkar as its founder-director, its humble commencement in the temporary premises of Harcourt Butler Technological Institute (HBTI) and the initiation of a traditional BTech programme. We see how rapid transformations enabled the institute to introduce and nurture a new academic culture in the country, illustrated by the paradigm shift in higher technical education and the freshness of a new spirit in higher education in general—the spirit of IITK. An inventive approach to faculty appointments, student admissions and the development of a novel academic structure are some of the deeply appreciated attributes that IITK has epitomized—and striven for. The book also captures IITK in the present times, in its pursuit of continually improving the material life of its students, staff members and the faculty, and the veritably important role played by the alumni, and also sheds light on the ‘new vision’ of the institute. Expertly and lovingly written by IITK insiders and long-timers, The Fourth IIT is ideal for past and present students and educators, and for anyone interested in an in-depth analysis of one of the most beloved and respected academic institutions in the country.

Medicines for Cancer: Mechanism of Action and Clinical Pharmacology of Chemo, Hormonal, Targeted, and Immunotherapies covers most known anti-cancer therapeutics. Cancer is the second leading cause of death worldwide, with its various forms resulting in nearly one out of every six mortalities each year. This book describes all US FDA-approved drugs (up to 2021), such as small molecules, peptides, monoclonal antibodies, whole antibodies, gene therapy, antibody-drug conjugates, cell therapy, and immunotherapies, along with information on their generic and brand names, medical uses, details dosage, mechanisms of actions, pharmacokinetics and side effects. Chemical structures of small molecules, small peptides, antibody-drug conjugates are also provided. This book is ideal for medicinal chemists, oncologists, and pharmacologists, but it will also be indispensable for professional researchers, whether they are working in the clinic or the pharmaceutical

industry. Covers precise information on each drug treatment Catalogues and lists all FDA-approved drugs for cancer group by chemical classes Provides easy access to specific drugs The lungs are the organ for gas exchange between the body and the external environment. Dysfunction of upper airway epithelium and smooth muscle cells leads to pathogenesis of asthma, chronic obstructive pulmonary disease (COPD), cystic fibrosis, and other conditions, resulting in airway inflammation and narrowing. Injury to alveolar epithelium and endothelium causes influx of neutrophil and protein-rich fluid from circulation, resulting in edema and disruption of gas exchange. In addition to lung structural cells, immune cells, including alveolar macrophages and lymphocytes play critical roles in the maintenance of lung function. This book contributes to the understanding homeostasis of lung cells in the physiological and pathological conditions critical to the development of novel therapeutics. Key Features Highlights the role the lungs play as an interface between the body and the environment Describes the underlying mechanism of lung diseases Emphasizes the ways nutrition contributes to lung health as well as the ways pollution adversely affect lung function Includes contributions from leading researchers Chapters 8 and 13 of this book are available for free in PDF format as Open Access from the individual product page at www.routledge.com. It has been made available under a Creative Commons Attribution-Non Commercial-No Derivatives 4.0 license. Presents the broad outline of NIH organizational structure, the professional staff, and their scientific and technical publications covering work done at NIH. This book considers the issues involved in fungal conservation and provides practical guidance for management of nature in ways beneficial to fungi. Stem Cells: An Alternative Therapy for COVID-19 and Cytokine Storm provides mechanistic insights into the role of stem cells to combat COVID-19 outbreak and other pathologies where cytokines storm is the cause of concern for e.g., radiation exposure, multiple organ failure and sepsis. There has been an increase in number of cases of new diseases in the last decade, including mucormycosis, Zika virus, H1N1 influenza virus, among others. These diseases can be characterized by the induction of cytokine storm, which is mainly responsible for morbidity and mortality. Stem cell therapy has emerged as a potential treatment for viral diseases, including, but not limited to, COVID-19. Interestingly, clinical trials in patients with COVID-19 complications depicted faster recovery in patients post mesenchymal stem cells therapy owing to the decreased cytokines levels, anti-viral effects and

regeneration of the infected tissue. Evaluates the role of MSCs to combat cytokine storm, the challenges regarding COVID-19 therapy and how they can be countered using stem cells, and the risk of opportunistic infections post COVID-19. Presents how stem cell therapy has emerged as a potential treatment for viral diseases, including, but not limited to, COVID-19. Provides a detailed understanding of the novel coronavirus, with an emphasis on therapeutic aspects. This book allows readers to tackle the challenges of turbulent flow problems with confidence. It covers the fundamentals of turbulence, various modeling approaches, and experimental studies. The fundamentals section includes isotropic turbulence and anisotropic turbulence, turbulent flow dynamics, free shear layers, turbulent boundary layers and plumes. The modeling section focuses on topics such as eddy viscosity models, standard K-E Models, Direct Numerical Simulation, Large Eddy Simulation, and their applications. The measurement of turbulent fluctuations experiments in isothermal and stratified turbulent flows are explored in the experimental methods section. Special topics include modeling of near wall turbulent flows, compressible turbulent flows, and more. Primarily intended for physicians and health care professionals who are treating obese patients, this book explores current and future options for drug treatment of obesity puts them into perspective against available alternative treatments. Distinguished scientists and clinical investigators provide reviews of each individual topic, covering a wide range of subjects from pathophysiology of obesity to the benefits of weight loss. The core sections on pharmacotherapy deal with currently available drugs and drugs in pre-clinical development. These sections are complemented with sections on non-drug treatment and general therapeutic aspects. This design provides an integrated view of therapeutic approaches to the treatment of obesity and its associated syndromes. Human papillomaviruses (HPV) are a heterogeneous and still growing virus family. Topical research results on the replication cycle and carcinogenic mechanisms allow a better understanding of current prevention strategies. Written by leading experts, this volume of Monographs in Virology provides up-to-date information on the prevention of papillomavirus-induced cancers by prophylactic antiviral vaccines and early detection of precancerous lesions. A major section covers the tremendous clinical burden due to HPV infections: genital warts and laryngeal papillomas, the most notorious cervical cancer, but also further anogenital and tonsillar cancer, the incidence of which increased steeply during the last

decades. Additionally, a section on prevention addresses the subject cytology - new concepts of biomarker development, detection of HPV DNA and RNA as well as their use in primary screening for early detection of precancerous lesions. Finally the book closes with a topical discussion of the most intriguing primary prevention of HPV infection by vaccination. As new perspectives for the prevention of HPV-related neoplasia raised great public interest, this book will be of value to clinicians and practitioners in gynecology, dermatology, urology and ENT, to pathologists, laboratory physicians, medical students, and public health authorities. First published in 1990: The book discusses the use of Biomedical engineering in Reproductive Medicine. Biodiversity and its Significance deals with the various fundamental aspects of biodiversity, which have a direct and strong impact on human beings and their environment. It comprises 20 articles contributed by renowned experts in their areas. This pioneering book has been designed for the students and research scholars of Plant Sciences, Agricultural Science and Bioinformatics. The contemporary successor to the editors' earlier Obesity: Theory and Therapy, this comprehensive handbook guides mental health, medical, and allied health professionals through the process of planning and delivering individualized treatment services for those seeking help for obesity. Concise, extensively referenced chapters present foundational knowledge and review the full range of widely used interventions, including self-help, behavioral, and cognitive-behavioral approaches; pharmacotherapy; and surgery. Provided are state-of-the-art guidelines for assessing obese individuals for health risks and for mood and eating disorders; treatment algorithms for tailoring interventions to the severity of the client's problem; details on adjunctive interventions for improving body image and self-esteem; recommendations for working with child clients; and much more. Each issue lists papers published during the preceding year. After three introductory chapters that deal with the general theme of obesity – now regarded as a chronic disease – this volume discusses the drugs sibutramine and orlistat, which are approved for long-term use in the US and in much of the rest of the world. The three final chapters discuss future drug targets, like the central nervous system and gut hormones, and how to influence energy expenditure and substrate utilization. One of the great twentieth-century achievements in the mechanics of fluids was the full elucidation of the physics of shock waves and the later comprehensive development of understanding of how shock waves propagate (i) through otherwise

undisturbed fluid and (ii) in interaction either with solid bodies or with independently generated fluid flows. The interaction problems (ii) were soon found to raise some very special difficulties (beginning with the common formation of "Mach stems" in shock-wave reflection) yet they also turned out to possess enormous scientific interest as well as being highly important in practical applications. For all these reasons the appearance of this book on "Interaction of Shock Waves" by one of the world's major contributors to knowledge in that field is most particularly to be welcomed. It covers all those approaches to the subject which have been found fruitful, and most satisfactorily goes into comprehensive detail about each. At last the important achievements of the leading research workers, experimental as well as theoretical, on shockwave interaction problems are brought together in a single convenient and well written volume. I warmly congratulate the author and the publisher on having performed, for the benefit of everyone interested in the mechanics of fluids, this immensely valuable service.

The way organizations manage their value chain has changed dramatically over the past decade. Today, organizations take account of economic issues, but they also adopt a broader perspective of their purpose including social and environmental issues. Yet despite its global spread, sustainable value chain management remains an uncertain and poorly defined ambition, with few absolutes. The social and environmental issues that organizations should address easily can be interpreted as including virtually everything. Current literature on the topic seeks to understand the effects and management of initiatives dealing with diversity, human rights, safety, philanthropy, community, and environment. However, the penetration of social and environmental considerations into value chain management is described as 'desire lacking reality' thereby making the idea a patchy success. The objective of this research anthology is to investigate different angles of sustainable value chain management. The book's 27 chapters fill holes and explore new fields; the chapters are organised in five sections: Sustainable value chains - context, drivers, and barriers; Sustainable value chains - managing activities; Sustainable value chains - managing networks and collaboration; Sustainable value chains - integrative perspectives; and Sustainable value chains - specific sectorial and industry perspectives.

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- [Lung Biology And Pathophysiology](#)
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