

R K Goyal Pharmacology

Current Trends in Pharmacology Microbiota-Gut-Brain Axis and CNS Disorders Canadian Journal of Physiology and Pharmacology Indian Journal of Physiology and Pharmacology Cancer Vaccination and Challenges Handbook of Physiology Asthma Neuroscience of Alcohol Handbook of Physiology: The gastrointestinal system. v. 1, pt. 1-2. Motility and circulation The Gastrointestinal System The Renin Angiotensin System in Cardiovascular Disease Drug Delivery Systems for Metabolic Disorders Controlled Drug Delivery Systems Screening Methods in Pharmacology Programme Et Résumés Des Communications Du Congrès Annuel History of Pharmacy in India and Related Aspects Women in Neuropharmacology: 2021 Statins: Indications and Uses, Safety and Modes of Action Pharmacotherapy of Heart Failure Pharmaceutical Education Arunabha Ray Neeraj Mishra Rishabha Malviya A. Louise Sugden Victor R Preedy Stanley G. Schultz Naranjan S. Dhalla Harish Dureja Emmanuel Opara N. S. Parmar Canadian Federation of Biological Societies Harkishan Singh Divya Vohora Gunnar N. Holmqvist S. K. Gupta Harkishan Singh

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pharmacology is a rapidly progressing area of biomedical research with new developments surfacing at regular intervals constantly revolutionizing drug therapy for disease states the interaction of this discipline with other biomedical sciences has opened up new vistas and opportunities in drug design and development basic and clinical concepts in the mechanism and use of drugs are carefully integrated into hypotheses which are aimed at the maintenance of a critical balance between health and disease current trends in pharmacology is a comprehensive collection of topics highly significant in the current health scenario the book comprises a combination of articles in clinical and experimental pharmacology and toxicology from the viewpoint of both basic and clinical scientists it also details recent developments in the basic aspects of drug action in some very relevant disease states like hypertension atherosclerosis arrhythmia stroke tuberculosis hospital acquired pneumonia and cancer it also highlights the applied issues relating to rational use of drugs the contributing authors are leading experts in their respective fields and have presented the topics in a lucid and comprehensive manner

microbiota gut brain axis and cns disorders recent progress and perspectives on human disease summarizes the main findings on gut brain axis in different types of cns disorders providing a complete overview of the field the content helps unravel the complex interactions of the microbiota gut brain axis in cns disorders to pave a better understanding of microbiota mediated pathogenesis avenues for noninvasive prognosis and therapeutic possibilities leveraging microbiota gut brain axis modulations coverage includes the role of the microbiota gut brain axis and gut virome on human diseases including alzheimer s disease parkinson s disease huntington s disease depression and anxiety autism spectrum disorder multiple sclerosis stroke and others this book will satisfy the urgent need for a broader view of the current associations between gut microbiota alterations and development of cns disorders including the use of novel therapeutic approaches for restoring the correct intestinal bacteria content it is the perfect reference for translational and clinical gut and microbiome researchers tackling the challenges of delivering genes and drugs in a more targeted and efficient manner for the treatment of cns disorders discusses the development of both health and disease in interdisciplinary

research involving gut microbiology provides an understanding the role of microbiome gut brain axis in neurodegenerative and neurodevelopmental diseases including central nervous system cns malignancies delivers a compilation of current clinical studies to further investigate the role of diet in varying neurological disorders

volume 1 strategies for therapeutic cancer vaccine development deals with strategies of cancer vaccine development focussing on the techniques for the development of therapeutic cancer vaccines and the role of tumor antigens proteins peptides microbial genes and stem cells for the development of vaccines for cancer management volume 2 delivery strategies for cancer vaccine and immunotherapy in management of various carcinomas covers delivery strategies of cancer vaccines for the management of various forms of carcinoma examining the prospects of delivering immuno oncology therapies focusing specifically on effective drug delivery strategies for the treatment of lung prostate and pancreatic carcinomas

despite the great successes in recent years in the treatment of asthma the problems of this disease are now affecting more people than ever before such is the importance of this disease that the british pharmaceutical conference 1996 devoted two full days to the matter exploring the scientific background the current medical treatment and public attitudes new advances in understanding the disease and new drug developments were described by a range of experts from the pharmaceutical industry and from clinical academics the considerable advances being made in understanding the biochemistry of asthma with the new discipline of biotechnology playing a major role were also discussed the papers published in this collection are essential reading for all those who wish to stay abreast of progress in this challenging field

neuroscience of alcohol mechanisms and treatment presents the fundamental information necessary for a thorough understanding of the neurobiological underpinnings of alcohol addiction and its effects on the brain offering thorough coverage of all aspects of alcohol research treatment and prevention and containing contributions from internationally recognized experts the book provides students early career researchers and investigators at all levels with a fundamental introduction to all aspects of alcohol misuse alcohol is one of the world s most common addictive substances with about two billion individuals

worldwide consuming it in one form or another and three million annual deaths that are associated with alcohol misuse alcohol alters a variety of neurological processes from molecular biology to cognition moreover addiction to alcohol can lead to numerous other health concerns and damage virtually every organ system in the body making diagnosis and treatment of individuals addicted to alcohol of critical importance integrates cutting edge research on the pharmacological cellular and molecular aspects of alcohol use along with its effects on neurobiological function discusses alcohol use as a component of dual use and poly addictions outlines numerous screening and treatment strategies for alcohol misuse covers both the physical and psychological effects of alcohol use and withdrawals to provide a fully formed view of alcohol dependency and its effects

this book on renin angiotensin system in cardiovascular disease includes 25 chapters which are organized in three sections namely i modulatory aspects ii pathophysiological aspects and iii pharmacotherapeutic aspects it includes an updated as well as comprehensive knowledge about molecular and cellular aspects for the role of the renin angiotensin system ras in the pathophysiology and therapy of cardiovascular diseases such as hypertension atherosclerosis ischemic heart disease and heart failure this book emphasizes the molecular and cellular mechanisms signaling transduction pathways involved in the development of different cardiovascular diseases due to the prolonged activation of ras furthermore biochemical mechanisms are outlined for the inhibition of this system by the blockade of angiotensin converting enzyme as well as angiotensin ii type 1 receptors in patients suffering from cardiovascular abnormalities since cardiovascular disease is the number one cause of death worldwide leading to approximately 17.9 million deaths each year there is a keen interest in understanding the pathogenesis and improving its therapy in this regard we can attest that this book provides ample information about essential components of ras and their role in the development of cardiovascular disease from the selection of recognized global experts in their area of investigation this book can be seen to cover diverse cardiovascular aspects and molecular and cellular mechanisms of angiotensin ii action for the development of different cardiovascular abnormalities it is our contention that this book will be most suitable for promoting knowledge in the field of ras biology and will be of great interest to health professionals involved in both experimental and clinical cardiology as well as academic

investigators and cardiovascular scientists graduate students and fellows worldwide

drug delivery systems for metabolic disorders presents the most recent developments on the targeted delivery of drugs to deal with metabolic disorders in a safe compliant and continuous way the book covers recent developments in advanced drug delivery systems in various metabolic disorders including disturbances in protein lipid carbohydrate and hormone metabolism and lysosomal and mitochondrial disorders it provides a brief introduction to metabolic disorders along with a focus on the current landscape and trends in understanding disease pathology using different in vitro and in vivo models required for clinical applications and developments of new therapeutics each subsequent chapter covers drug delivery systems dedicated to metabolic diseases caused by disturbances in protein lipid carbohydrate and hormone metabolism then it moves on to cover lysosomal storage disorders and applications of phytopharmaceuticals in this context this is the perfect reference for researchers in pharmaceutical science who are interested in developing new treatments for metabolic diseases offers comprehensive coverage of drug delivery to treat metabolic diseases provides insights into how advanced drug delivery systems can be effectively used for the management of various types of metabolic disorders includes the most recent research on diagnostic methods and treatment strategies using controlled drug delivery systems

this book will describe current research on drug delivery systems that encompass four broad categories namely routes of delivery delivery vehicles payload and targeting strategies where appropriate delivery vehicles and relevant release of specific agents in any of these categories in clinical application will be discussed all chapters will highlight the translational aspects of the various technologies discussed and will provide insights into the advantages of such delivery systems over current ones in clinical or research use each technology reviewed in this book will have significant potential to improve patients lives by enhancing the therapeutic efficacy of drugs this book discusses the various factors that mitigate effective oral insulin delivery and the current status of research efforts to overcome these barriers along with recent clinical projections examines the advantages and disadvantages of each drug delivery system examines the standard method of accomplishing controlled drug release through the incorporation of the drugs within

polymeric biomaterials such as capsules and microcapsules as well as other vehicles such as liposomes discusses various controlled drug delivery systems including sustained release delivery systems and pulse or delayed release e g to target different regions of the gastrointestinal tract in view of these wide ranging technological areas and the up to date discussions of opportunities and challenges associated with these applications the book should provide readers from technology materials science pharmacology and clinical disciplines with very valuable information

screening methods in pharmacology provides an up to date and concise account of in vivo methods used in the pharmacological screening of important categories of clinically useful drugs it also encompasses the basic principles of animal experimentation and current advances leading to the use of transgenic animals combinatorial chemistry high throughput screening pharmacogenomics proteomics and array technology the methods used for the detection of pharmacological effects of potential drugs on the cns cvs endocrines respiratory tract and immunomodulation have been described in adequate details with cross references for further studies and comprehension the book is expected to be extremely useful for postgraduates in pharmacology from all disciplines and for the scientists engaged in the drug discovery research programmes

this new book focuses on statins which are a relatively new group of drugs used to lower blood cholesterol levels a high cholesterol level increases a person s risk of having a heart attack or stroke the long term use of statins reduces the risk of such an event and can increase the life expectancy of people with a history of heart disease the statins work by blocking an enzyme in the body that is involved in the production of ldl cholesterol especially in the liver this enzyme is known as hmg coenzyme a reductase the statins are the most effective group of drugs for lowering the levels of ldl cholesterol in the body potential side effects include muscle cramps and gastrointestinal upsets these are usually resolved on temporarily lowering the dose liver enzyme derangements may occur which generally return to normal after briefly discontinuing the drug some report headaches other side effects occur rarely

heart failure has been traditionally explained as a reduction in cardiac pumping capacity caused by problems in the blood till now the therapy prescribed has been symptomatic

involving the use of diuretics muscular stimulation and blood vessel relaxants but recent research has focussed on the circumstances leading up to heart failure which includes abnormal hemodynamics atherosclerosis dietary and nutritional anomalies obesity immunity and other metabolic disorders this book brings together such research in one volume including molecular and cellular aspects of heart failure and its pathophysiology it is a significant contribution to the understanding and prevention of heart failure and will be welcomed by cardiologists pharmacologists biochemists and all those who practice and research the subject the contributors from around the world include australia brazil canada denmark india and usa

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