

HANDBOOK OF

**Methods in
Gastrointestinal
Pharmacology**

EDITED BY

Timothy S. Gagarella

Handbook Of Methods In Gastrointestinal Pharmacology A Handbook

Laszlo Gyermek



Handbook Of Methods In Gastrointestinal Pharmacology A Handbook:

Handbook of Methods in Gastrointestinal Pharmacology Timothy S. Gaginella, 1995-10-20 Gastroenterology has advanced through the development and application of increasingly sophisticated methods to measure changes in gastrointestinal function. Handbook of Methods in Gastrointestinal Pharmacology brings together details on commonly employed approaches in investigative gastroenterology. The book provides comprehensive coverage of methods and techniques used to investigate the mechanism of action of drugs on the GI tract. An integral part of each chapter is the discussion of development of techniques based upon physiologic mechanisms and principles in pharmacology. In vivo and in situ techniques involving whole animals, isolated tissue methodology, the use of single cell systems and molecular biology approaches are covered. Illustrations provide a clear understanding of methodologies discussed. Emphasis is placed on advantages and disadvantages of each technique in answering specific research questions. Chapters are written by experts experienced in the techniques they discuss. Many pioneered one or more widely used methods. The wide variety of topics included make the Handbook of Methods in Gastrointestinal Pharmacology useful to established investigators, research fellows and graduate students. Additionally, reviewers of grants and manuscripts can use it to clarify questions that arise regarding appropriate use of a technique in a particular setting.

Manual of Immunological Methods Canadian Networking, 1998-07-02 The Manual of Immunological Methods represents the collaboration of the Canadian Network of Toxicology Centers, a non profit network of university based scientists dedicated to research training, risk assessment and communication. This manual provides detailed immunological methods that can be utilized by researchers or practitioners who want to enhance the successful application of this science. It emphasizes the need for continuously improving the quality of experiments performed and maintaining consistency in the results obtained. The Manual of Immunological Methods presents validated assays that are accompanied by a series of tools that will guide readers in performing their own laboratory work in the spirit of the Good Laboratory Practices. It covers specific methodologies including sample collection, preparation of cells, assay conditions and data evaluation. Discussion of species differences and comparisons of a wide variety of species is an important feature. Both graduate students and practicing researchers in the areas of immunology and immunotoxicology will appreciate the Manual of Immunological Methods as a guide to standard operating procedures in the laboratory.

Pharmacology of Antimuscarinic Agents Laszlo Gyermek, 1997-11-25 The theoretical and practical significance of antimuscarinic drugs is more obvious today than ever before. Antimuscarinics have helped to explore the pathomechanisms of Alzheimer's disease and to treat the symptoms of Parkinson's cardiovascular problems, gastrointestinal diseases and even nerve gas poisoning. No other drug class can claim as long a history with so many therapeutic applications yet the most significant developments in this broad chapter of pharmacology come from the discovery of different muscarinic receptor sites in the peripheral and central nervous system and from the availability of many new selective agents, notably antagonists for these different receptor types. Pharmacology of

Antimuscarinic Agents written by an expert in anesthesiology and drug research focuses on the basic principles of antimuscarinic drugs their therapeutic value how they work and what versions are now available in the U S and abroad This is the first time in decades an author has reviewed historical and current literature to present a comprehensive standard reference on the antimuscarinic family *Introduction to Neurobehavioral Toxicology* Hugh A. Tilson,R.M.A. Jaspers,L.M.W. Kornet,J.M. van Ree,1998-11-25 *Introduction to Neurobehavioral Toxicology* Food and Environment examines the effects of chemicals on the central and peripheral nervous system and the subsequent changes in behavior with a focus on the toxicity of food components and behavioral effects of environmental toxicants Topics addressed include acute and chronic effects reversible and **Endothelin Receptors** Robert R. Ruffolo, Jr.,1995-05-19 Since the discovery of endothelin major advances have been made in understanding the molecular structure and function of the endothelin receptors At least two subtypes of receptors designated ETA and ETB have been identified through biochemical and pharmacological techniques These subtypes are cloned and expressed and additional subtypes appear to exist The biochemical events involved in the signal transduction processes that ultimately activate the cellular machinery involved in the end organ responses are presented as are the mechanisms by which the receptors recognize specific and different G proteins Functions mediated by the receptors at the cellular tissue and organ level are reviewed in detail as well as the roles that they may play a part in the physiologic and pathophysiologic processes in animals and in humans This book is unique in its breadth of scope The most recent and important advances from the intracellular level of the nucleus to the functional effect that endothelin receptors mediate in intact organs are compiled and reviewed **Human Growth Hormone Pharmacology** Kathleen T. Shiverick,Arlan L. Rosenbloom,1995-03-09 This book addresses a wide range of basic and clinical issues in the physiology and pharmacology of growth hormone The volume is organized like a textbook It begins with factors contributing to GH gene expression the functional relationships of the GH receptor molecular biological analysis of the GH GH receptor complex and proceeds to describe the insulin like growth factor axis Transgenic models are discussed for analysis of discrete effects These discussions provide a bridge to clinically oriented discussions of growth abnormalities in GH deficient children GH insensitivity due to deficiency of the GH receptor and the concept of aging as a GH IGF I deficiency state Discussions also include the immune system as a source and a responder to GH GHRH IGF I and the effects of GH excess Endothelin Receptors Jr. Ruffolo,2024-12-20 Since the discovery of endothelin major advances have been made in understanding the molecular structure and function of the endothelin receptors At least two subtypes of receptors designated ETA and ETB have been identified through biochemical and pharmacological techniques These subtypes are cloned and expressed and additional subtypes appear to exist The biochemical events involved in the signal transduction processes that ultimately activate the cellular machinery involved in the end organ responses are presented as are the mechanisms by which the receptors recognize specific and different G proteins Functions mediated by the receptors at the cellular tissue and organ

level are reviewed in detail as well as the roles that they may play a part in the physiologic and pathophysiologic processes in animals and in humans This book is unique in its breadth of scope The most recent and important advances from the intracellular level of the nucleus to the functional effect that endothelin receptors mediate in intact organs are compiled and reviewed

Drugs of Abuse and Addiction Raymond Niesink,R.M.A. Jaspers,L.M.W. Kornet,J.M. van Ree,1998-12-08
Drugs of Abuse and Addiction Neurobehavioral Toxicology examines drugs of abuse and addiction and how they affect behavior This book considers the entire range of addiction research in humans and animals using a multidisciplinary approach to discuss all areas of the neuro and behavioral sciences involved Emphasis is on acute and chronic effect CNS

Injuries Martin Berry,Ann Logan,2019-07-17 The basic science of the cellular and molecular responses of the brain to injury is a rapidly expanding area of research that provides evidence of growing opportunities for pharmacological intervention in the clinic CNS Injuries Cellular Responses and Pharmacological Strategies is an up to date examination of new developments in our understanding of the cellular and trophic responses to CNS injuries and the potential treatment This text collates reviews of the most important areas of study regarding injury response including inflammatory and immune reactions scarring neuron death demyelination and remyelination axonal regeneration re establishment of neuronal connectivity Providing a record of recent advances that will help point the way to future developments this enlightening reference is sure to benefit researchers and practitioners in a broad range of disciplines including neurology pharmacology pathology toxicology immunology and many others

Stealth Liposomes Danilo D. Lasic,Francis J. Martin,2018-05-04 This book examines stealth liposomes from a multidisciplinary approach which includes theoretical polymer physics organic synthesis colloid science and biology Discussions include theory chemistry biochemistry pharmacology preclinical studies in model systems and medical applications in humans

Alternative Methodologies for the Safety Evaluation of Chemicals in the Cosmetic Industry Nicola Loprieno,2019-08-15 First published in 1995 Alternative Methodologies for the Safety Evaluation of Chemicals in the Cosmetic Industry presents a categorization and collection of information available for the evaluation of safety using in vitro techniques It offers a comprehensive and complete look at the entire field In doing so the author provides the foundation for the next phase of significant growth for this discipline

Phospholipase A2 in Clinical Inflammation Keith B. Glaser,Peter Vadas,1995-08-03 Phospholipase A2 in Clinical Inflammation presents an up to date topical review of the biochemistry molecular biology and biology of mammalian phospholipase A2 PLA2 The emphasis of this monograph is on the current aspects of PLA2 research using molecular approaches to investigate PLA2 structure and function inhibitor design and the regulation of sPLA2 and cPLA2 in cellular systems The second section examines the major disease states where PLA2 has been implicated rheumatoid diseases acute pancreatitis and psoriasis These chapters contributed by experts in the field give the reader an overall sense of the clinical relevance of the molecular approaches to study PLA2 in relation to the disease entities that may be associated with altered

PLA2 levels and activity This comprehensive text not only provides the necessary historical review for beginning researchers but also addresses the more current molecular approaches as well as the major disease states for the seasoned researcher

Infectious Diseases in Immunocompromised Hosts Vassil St. Georgiev,1997-12-29 Because of limited access to medical libraries and medical journals the majority of clinicians may find it difficult to keep informed on the latest developments in drug manufacture and treatment of infectious diseases in immunocompromised patients This new handbook strives to fulfill the need for information in this area of medicine This is the first book on drug development and treatment of infectious diseases in immunocompromised hosts It integrates both results from large scale clinical trials and single cases as well as small groups of patients It covers bacterial viral parasitic and fungal infections including a wide array of diseases Infectious Diseases in Immunocompromised Hosts encompasses not only opportunistic infections associated exclusively with immunocompromised patients but also common infections that become life threatening for immunosuppressed individuals

National Library of Medicine Current Catalog National Library of Medicine (U.S.), Current Catalog National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70 *Preclinical Development Handbook* Shayne Cox Gad,2008-03-21 A clear straightforward resource to guide you through preclinical drug development Following this book s step by step guidance you can successfully initiate and complete critical phases of preclinical drug development The book serves as a basic comprehensive reference to prioritizing and optimizing leads toxicity pharmacogenomics modeling and regulations This single definitive easy to use resource discusses all the issues that need consideration and provides detailed instructions for current methods and techniques Each chapter was written by one or more leading experts in the field These authors representing the many disciplines involved in preclinical toxicology screening and testing give you the tools needed to apply an effective multidisciplinary approach The editor with more than thirty years experience working with pharmaceutical and biotechnology companies carefully reviewed all the chapters to ensure that each one is thorough accurate and clear Among the key topics covered are In vitro mammalian cytogenetics tests Phototoxicity Carcinogenicity studies The pharmacogenomics of personalized medicine Bridging studies Toxicogenomics and toxicoproteomics Each chapter offers a full exploration of problems that may be encountered and their solutions The authors also set forth the limitations of various methods and techniques used in determining the safety and efficacy of a drug during the preclinical stage This is a hands on guide for pharmaceutical scientists involved in preclinical testing enabling them to perform and document preclinical safety tests to meet all FDA requirements before clinical trials may begin **Laxatives** Francesco Capasso,Timothy S. Gaginnella,2012-12-06 Constipation is a common disorder that is often defined differently by patients and physicians Clinically constipation occurs when bowel move ments are difficult or painful The normality of bowel movements in terms of frequency varies among individuals frequency that is thought by one person to be constipation may be reported by another to be usual and thus normal Often the perceived need to have a bowel movement leads to self treatment with

laxatives as these drugs are widely available without a prescription. This situation can raise problems in patient care because of potential interactions between laxatives and other medications. Furthermore, chronic use or abuse of laxatives can cause serious medical consequences, causing patients to visit physicians and even to be hospitalized for further evaluation and care. This has a financial impact on the patient and on health care systems. It is essential that pharmacists, physicians, and other health care practitioners counsel patients on the causes of constipation and the proper use of laxatives. A medical workup by a physician should be done to determine if the constipation is due to a pathological process. Often, normal bowel function for an individual can be maintained by diet and/or lifestyle. Most laxatives in use today are of botanical origin. Further research on the mechanism of action of these and synthetic laxatives is needed to better define their pharmacology and toxicology.

Toxicology of the Gastrointestinal Tract, Second Edition Shayne Cox Gad, 2018-10-26. The gastrointestinal tract is the most important of the three major routes of entry and clearance of xenobiotics and biologic entities into the bodies of mammals. As such, it is also the major route for administration of pharmaceuticals to humans. *Gastrointestinal Toxicology, Second Edition* describes the mechanism for entry and clearance of xenobiotics as well as the barriers, immunologic and metabolic issues, and functions present in the GI tract. Appearing in this volume are also considerations of the microbiome and its actions and influence on the function of the GI tract and on the toxicity and pharmacodynamics of ingested substances, including nutrients, toxins, and therapeutics. These fifteen chapters, written by experienced experts in the field, address methods to evaluate GI function, specifics of GI function and toxicity assessment in canines and minipigs, classes of compounds with their toxicity, species differences, and the toxicity and promise of nanoparticles. Those needing to understand the structure, function, and methods of studying the GI tract will find this volume a singular source of reference. **American Book Publishing Record**, 2005.

Functional Foods and Beverages Nicolas Bordenave, Mario G. Ferruzzi, 2018-06-22. A much needed guide to in vitro food functionality evaluation principles, processes, and state-of-the-art modeling. There are more than a few books devoted to the assessment of food functionality, but until now there were no comprehensive guides focusing on the increasingly important subject of in vitro food evaluation. With contributions from the world's foremost experts in the field, this book brings readers up to speed on the state-of-the-art in in vitro modeling from its physiological bases to its conception, current uses, and future developments. Food functionality is a broad concept encompassing nutritional and health functionality, food safety, and toxicology, as well as a broad range of visual and organoleptic properties of food. In vitro techniques bridge the gap between standard analytical techniques, including chemical and biochemical approaches, and in vivo human testing, which remains the ultimate translational goal for evaluation of the functionality of food. Although it is a well-established field, in vitro food testing continues to evolve toward ever more accurate predictions of in vivo properties and outcomes. Both ethical and highly economical, these approaches allow for detailed mechanistic insights into food functionalities and therefore a better understanding of the interactions of food and human physiology. Reviews the core

concepts of food functionality and functionality evaluation methodologies Provides an overview of the physiology of the gastrointestinal tract including host microbial interactions within it Delves into the physiology of sensory perception of food taste and texture as they relate to in vitro modeling Explores the challenges of linking in vitro analysis of taste aroma and flavor to their actual perception Addresses in vitro models of the digestion and absorption of macronutrients micronutrients and phytonutrients Describes in vitro evaluations of toxicants allergens and other specific food hazards Functional Foods and Beverages is an indispensable working resource for food scientists as well as researchers working in government facilities dedicated to tracking food safety

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