

Pharmacology of Intestinal Permeation II

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Pharmacology Of Intestinal Permeation Ii

S.S. Davis,Lisbeth Illum,E. Tomlinson



Pharmacology Of Intestinal Permeation II:

Pharmacology of Intestinal Permeation II, 2012-12-06 The intestine particularly the small bowel represents a large surface in the adult human approximately 200 m² through which the body is exposed to its environment. A vigorous substrate exchange takes place across this large surface; nutrients and xenobiotics are absorbed from the lumen into the bloodstream or the lymph and simultaneously the same types of substrate pass back into the lumen. The luminal surface of the intestine is lined with a leaky epithelium; thus the passage of the substrates in either direction proceeds via both transcellular and intercellular routes. Simple and carrier-mediated diffusion, active transport, pinocytosis, phagocytosis and perocytosis are all involved in this passage across the intestinal wall. The term intestinal permeation refers to the process of passage of various substances across the gut wall either from the lumen into the blood or lymph or in the opposite direction. Permeability is the condition of the gut which governs the rate of this complex two-way passage. The pharmacologist's interest in the problem of intestinal permeation is twofold: on the one hand this process determines the bioavailability of drugs and contributes significantly to the pharmacokinetics and toxicokinetics of xenobiotics; on the other hand the pharmacodynamic effects of many drugs are manifested in a significant alteration of the physiological process of intestinal permeation.

Pharmacology of Intestinal Permeation T. Z. Csáky, 1984 **Pharmacology of Intestinal Permeation** W. McD. Armstrong, 1984 *Microbial Resistance to Drugs* Lawrence E. Bryan, 2012-12-06 Most often when the subject of antimicrobial resistance is discussed the organizational emphasis is on individual antimicrobial agents or groups of agents. Thus we tend to see discussion of resistance to β -lactams, tetracyclines, amino glycosides etc. In this book many of the authors were asked to emphasize the mechanism of resistance in their discussion and from that to show how susceptibility to various agents was affected. In part this was done to help emphasize the enormous contribution that the study of antimicrobial resistance has made to our understanding of fundamental physiologic and genetic processes in bacteria. When one looks back over the study of antimicrobial resistance it is clear that it has been the birthplace of many fundamental advances in molecular biology and of an appreciation of the role of many key functions in the life of a bacterium. In addition and hopefully to an increasing extent in the future such study has also contributed to advances in antimicrobial chemotherapy. Throughout the book resistance mechanisms have been placed in perspective as to their significance as causes of resistance to key drugs or groups of drugs. Some are of much greater significance than others in terms of the prevalence or the degree of resistance produced. Whatever their numerical significance however each of the mechanisms without question throws light on fundamental cellular processes and the way in which they interact with antimicrobial agents.

Pharmacology of Intestinal Permeation I, 2012-12-06 The intestine particularly the small bowel represents a large surface in the adult human approximately 200m² through which the body is exposed to its environment. A vigorous substrate exchange takes place across this large surface; nutrients and xenobiotics are absorbed from the lumen into the bloodstream or the lymph and

simultaneously the same types of substrate pass back into the lumen The luminal surface of the intestine is lined with a leaky epithelium thus the passage of the substrates in either direction proceeds via both transcellular and intercellular routes Simple and carrier mediated diffusion active transport pinocytosis phagocytosis and persorption are all involved in this passage across the intestinal wall The term intestinal permeation refers to the process of passage of various substances across the gut wall either from the lumen into the blood or lymph or in the opposite direction Permeability is the condition of the gut which governs the rate of this complex two way passage The pharmacologist s interest in the problem of intestinal permeation is twofold on the one hand this process determines the bioavailability of drugs and contributes significantly to the pharmacokinetics and toxicokinetics of xenobiotics on the other hand the pharmacodynamic effects of many drugs are manifested in a significant alteration of the physiological process of intestinal permeation **Chemotherapy of**

Gastrointestinal Helminths H. Vanden Bossche, D. Thienpont, P.G. Janssens, 2012-12-06 Parasitic diseases are the most widespread of all the major diseases currently affecting about 3 x 10⁹ people and innumerable domestic animals There is no doubt that among these parasitic diseases the helminthic infections of the gastrointestinal tract are about the most important because of their global distribution their high prevalence their effects on the nutritional status of men and animals their effects on the physical and mental development of children and their economic effects on the production of animals Anthelmintics are important elements in the control of these gastrointestinal helminthic infections In this volume the editors and authors have tried to find a way through the immense amount of information on anthelmintic drugs that is scattered throughout the literature Different authors have critically examined this information from different angles However the aim of all has been to provide the information needed by veterinarians physicians and public health workers to select the most suitable drug for a given situation *Histamine and Histamine Antagonists* Börje Uvnäs, 2012-12-06 Together with the two previous volumes of the Handbook of Experimental Pharmacology on histamine and antihistamines the present publication yields a picture of a still rapidly developing field of research New techniques and new experimental approaches have brought us new knowledge and deeper insight into the biomedical significance of histamine even if many questions remain to be answered about the functional and medical implications of this old biogenic amine The present volume covers the progress in histamine research during the past two decades A significant chapter concerns techniques for histamine determination As the result of a consensus meeting in Munich in December 1988 a panel of eminent specialists arrived at common recommendations as to the usefulness of the available histamine assays for the most common experimental biomedical conditions The heterogeneity of mast cells with great differences in their reactivity to various stimuli has become apparent not only among species but also among the tissues of a species New information is presented about the mechanism of exocytosis The old questions about the role of histamine in the mechanism of gastric secretion and in cardiovascular and respiratory functions have been studied with new techniques and the role of H₁ and H₂ receptors discussed New

observations have been made on the occurrence and possible functions of histaminergic neurons and histamine receptors in CNS where a new type of receptor the H seems to be widely represented **The Cholinergic Synapse** Victor P.

Whittaker,2012-12-06 One of the most impressive works of scholarship in the field of experimental pharmacology has been the Heffter Heubner Handbuch der experimentellen Pharmakologie internationalized some years ago under the title Handbook of Experimental Pharmacology and kept up to date by a series of numbered Ergänzungswerke or supplementary volumes which have now replaced in importance the original Handbuch These volumes constitute a valuable and continuously up dated multi author review series of topics important in modern pharmacology and allied sciences The Editorial Board of the Handbook invited me 2 years ago to undertake as subeditor the preparation of a new volume entitled The Cholinergic Synapse A previous volume in this series vol 15 Cholinesterases and Anticholinesterase Agents edited by GEORGE KOELLE was published in 1963 and was far wider in scope than its title suggested it was in fact an authoritative summing up of the whole subject of cholinergic function and still has some value today as an account of the state of the art as it was at that time Since then another excellent review of a specific cholinergic synapse has appeared in this series this was vol 42 Neuromuscular Junction edited by ELEANOR ZAIMIS and published in 1976 A third volume vol 53 Pharmacology of Ganglionic Transmission which appeared in 1980 and was edited by D A KHARKEVICH includes important aspects of autonomic cholinergic function *Gastrointestinal Physiology* Menizibeya Osain Welcome,2018-06-20 This book offers one

of the most comprehensive reviews in the field of gastrointestinal GI physiology guiding readers on a journey through the complete digestive tract while also highlighting related organs and glandular systems It is not solely limited to organ system physiology and related disciplines like anatomy and histology but also examines the molecular and cellular processes that keep the digestive system running As such the book provides extensive information on the molecular cellular tissue organ and system levels of functions in the GI system Chapters on the roles of the gut as an endocrine exocrine and neural organ as well as its microbiome functions broaden readers understanding of the multi organ networks in the human body To help illustrate the interconnections between the physiological concepts principles and clinical presentations it outlines clinical examples such as pathologies that link basic science with clinical practice in special clinical correlates sections Covering both traditional and contemporary topics it is a valuable resource for biomedical students as well as healthcare and scientific professionals Physiological Pharmaceutics Neena Washington,2000-12-21 In recent years the emphasis in drug

development has been the design of new delivery systems rather than new drugs It is the aim of innovative pharmaceutical scientists to design the new dosage forms to overcome the body's barrier mechanisms which have specifically evolved to exclude foreign material This book provides an integrated approach Drug Absorption Studies Carsten Ehrhardt,Kwang-Jin Kim,2007-12-22 This is a well thought out highly practical text covering contemporary in vitro techniques for drug absorption studies Starting at the molecular level of investigation it continues with cell monolayer models both primary and cell lines

and culminates with in situ techniques as a final testing format In addition chapters on high throughput assays in vitro in vivo correlation bioinformatics and regulatory issues are covered giving a comprehensive overview of available models and techniques Moreover an appendix consisting of a number of practical protocols is available online updated as needed and should prove very helpful to apply the techniques directly to the benchside Antiepileptic Drugs Hans-Hasso Frey,D. Janz,2012-12-06 Epileptic disorders need treatment for many years or even for life and this makes a thorough understanding of the pharmacokinetics and possible hazards and side effects of the drugs used in treatment mandatory During recent decades our knowledge in this field has considerably increased not least as a result of the development of specific and sensitive methods for the determination of anti epileptic agents in biological material The clinical pharmacology of this group of drugs has been studied extensively and can today be regarded as well established This does not necessarily mean that drug treatment of epilepsy is without problems For example it has recently been shown that one of the newer anti epileptic drugs greeted with great enthusiasm by clinicians may in rare instances induce serious damage to the liver and the pancreas and seems even to have a certain teratogenic potential Clinical problems should be understood as a challenge to the experimental pharmacologist who should try to find explanations for the clinical hazards and if possible show new ways in which better drugs might be developed In recent years interest has focused on the importance of the inhibitory transmitter l aminobutyric acid GABA in the pathophysiology of epilepsy and there have been a series of attempts to find useful antiepileptic drugs among substances interfering with GABA metabolism in the CNS Local Anesthetics Gary R. Strichartz,2012-12-06 Local anesthetics are among the most widely used drugs Their development over the past century ranges from a documented influence on Freud s Interpretation of Dreams 1 to the synthesis of the ubiquitously popular lidocaine as described in Chapter 1 For surgical procedures the use of regional epidural and intrathecal local anesthesia has increased continuously during the past decade Local anesthetics are also applied by physicians to ameliorate unpleasant sensations and reactions to other procedures such as tracheal intubation The presence or the threat of cardiac arrhythmias is often countered by chronic administration of local anesthetic like agents such as lidocaine or procainamide Relief of acute pain accompanying dental manipulations for example and of chronic pain are also accomplished with traditional local anesthetics And over the counter formulations of topical local anesthetics provide practitioners of solar indiscretion welcome relief from their otherwise unaccommodating sunburn In all these applications the final effect of the local anesthetic is an inhibition of electrical activity accomplished as a reduction or total blockade of action potentials The primary site of action is the sodium channel a transmembrane protein which is essential for the influx of sodium ions that subserves impulse generation and propagation in nerves skeletal muscle and heart The detailed mechanisms of local anesthetic action are still being investigated and Chapter 2 of this volume provides a current overview of that subject Oral Bioavailability and Drug Delivery Ming Hu,Xiaoling Li,2024-02-13 ORAL BIOAVAILABILITY AND DRUG DELIVERY Improve the performance and

viability of newly developed and approved drugs with this crucial guide Bioavailability is the parameter which measures the rate and extent to which a drug reaches a user's circulatory system depending on the method of administration For example intravenous administration produces a bioavailability of 100% since the drugs are injected directly into the circulatory system in the case of oral administration however bioavailability can vary widely based on factors which if not properly understood can result in a failure in drug development adverse effects and other complications The mechanics of oral bioavailability are therefore critical aspects of drug development Oral Bioavailability and Drug Delivery provides a comprehensive coverage of this subject as well as its drug development applications Beginning with basic terminology and fundamental concepts it provides a thorough understanding of the challenges and barriers to oral bioavailability as well as the possibilities for improving this parameter The resulting book is an indispensable tool for drug development research Oral Bioavailability and Drug Delivery readers will also find Discussion questions in many chapters to facilitate comprehension Detailed discussion of topics including dissolution absorption metabolism and more Real world examples of methods in actions throughout Oral Bioavailability and Drug Delivery is ideal for pharmaceutical and biotechnology scientists working in drug discovery and development researchers in chemistry biology pharmacology immunology neuroscience and other related fields and graduate courses in drug development and delivery

Comparative Pharmacokinetics Jim E.

Riviere, 2011-01-14 Now in a revised edition Comparative Pharmacokinetics Principles Techniques and Applications presents the principles and techniques of comparative and veterinary pharmacokinetics in a detailed yet practical manner Developed as a tool for ensuring that pharmacokinetics studies are properly designed and correctly interpreted the book provides complete coverage of the conceptual basis of pharmacokinetics as used for quantifying biological processes from the perspectives of physiology and medicine New chapters have been added on quantitative structure permeability relationships and bioequivalence and a number of existing chapters have been significantly revised and expanded to provide a current resource for veterinary and comparative pharmacokinetics

Delivery Systems for Peptide Drugs S.S. Davis, Lisbeth

Illum, E. Tomlinson, 2013-11-11 Recent years have seen enormous advances in the field of protein and peptide engineering and a greater understanding in the way in which biological response modifiers function in the body It is now possible through the use of recombinant DNA techniques or by solid phase protein synthesis to produce significant quantities of a wide variety of regulatory agents that are therapeutically applicable The list of these response modifiers expands almost daily to include interferons macrophage activation factors neuropeptides and agents that may have potential in cardiovascular disease inflammation contraception etc Prospects to use some of these materials in medicine have reached the stage where products have either been approved by regulatory authorities or are the subject of applications as investigatory drugs or as new therapeutic agents In some uses the pertinent agent will be administered on an acute basis in the form of a simple injection as for example the use of a tissue plasminogen activator for the treatment of coronary infarct In other cases regulatory

proteins and peptides are indicated for chronic therapy and here they will need to be administered by an appropriate delivery system Unfortunately the research on delivery systems for peptides and proteins has not kept pace with the rapid progress in biotechnology and consequently there are presently few systems that are entirely appropriate for the administration of macromolecular drugs according to complex dosage regimens eg intermittent and pulsed therapy Furthermore essential pharmacokinetic and pharmacodynamic data may be missing

Current Catalog National Library of Medicine (U.S.), First multi year cumulation covers six years 1965-70

Drug Targeting And Delivery H.E. Junginger, 1992-10-31 This is a review of the structure and function of biological membranes and other cellular barriers used in drug transport It discusses a range of concepts for drug delivery systems treating the routes of drugs with regard to their characteristics function structure uptake mechanism and effect The book also explores the interface between pharmaceutical technology and physiological principles in drug design a field of increased importance to industry

Drug Discovery Technologies Colin Roy Clark, Walter Hamilton Moos, 1990

Protein Delivery Lynda M. Sanders, R. Wayne Hendren, 2005-11-21 Thirteen chapters by industrial and academic authorities in this rapidly evolving field present detailed case histories and reviews of current sophisticated protein drug delivery technologies Highlights include a comprehensive overview of insulin delivery and a discussion of the use of biodegradable microspheres

Whispering the Strategies of Language: An Emotional Quest through **Pharmacology Of Intestinal Permeation Ii**

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