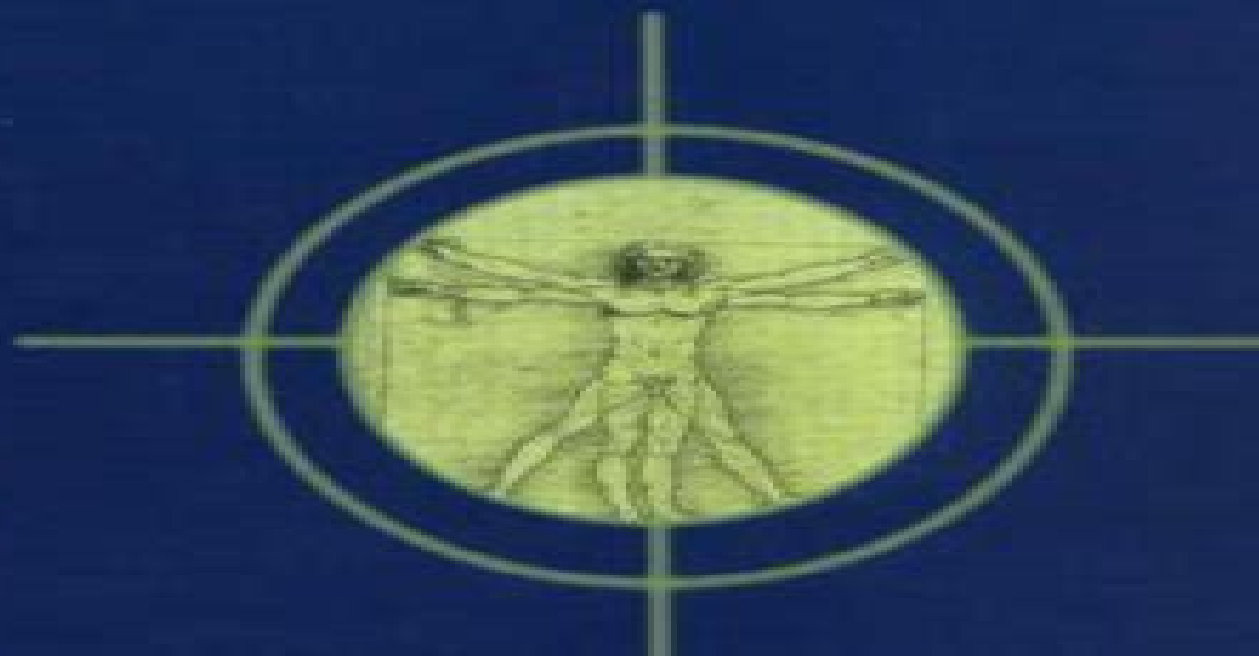


DRUG DELIVERY AND TARGETING

FOR PHARMACISTS AND PHARMACEUTICAL SCIENTISTS

edited by
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Drug Delivery And Targeting For Pharmacists And Pharmaceutical Scientists

Bruno Sarmento, Jose das Neves



Drug Delivery And Targeting For Pharmacists And Pharmaceutical Scientists:

Drug Delivery and Targeting Anya M. Hillery, Andrew W. Lloyd, James Swarbrick, 2003-09-02 The advances in biotechnology and molecular biology over recent years have resulted in a large number of novel molecules with the potential to revolutionize the treatment and prevention of disease However such potential is severely compromised by significant obstacles to delivery of these drugs in vivo These obstacles are often so great that effective drug delivery and targeting is now recognized as the key to effective development of many therapeutics Advanced drug delivery and targeting can offer significant advantages to conventional drugs such as increased efficiency convenience and the potential for line extensions and market expansion An accessible and easy to read textbook Drug Delivery and Targeting for Pharmacists and Pharmaceutical Scientists is the first book to provide a comprehensive introduction to the principles of advanced drug delivery and targeting their current applications and potential future developments including Methods to optimize therapeutic efficacy and the related commercial implications Difficulties with drug absorption unwanted distribution and premature inactivation elimination Attempts to minimize toxicity or alter immunogenicity Methods to achieve rate controlled drug release and effective drug targeting Novel and established routes of delivery Use of new generation technologies such as biosensors microchips stimuli sensitive hydrogels and plasmid based gene therapy This volume is indispensable for pharmaceutical students scientists and researchers

Martin's Physical Pharmacy and Pharmaceutical Sciences

Patrick J. Sinko, 2023-03-01 Consistently revised and updated for more than 60 years to reflect the most current research and practice Martin's Physical Pharmacy and Pharmaceutical Sciences 8th Edition is the original and most comprehensive text available on the physical chemical and biological principles that underlie pharmacology and the pharmaceutical sciences An ideal resource for PharmD and pharmacy students worldwide teachers researchers or industrial pharmaceutical scientists this 8th Edition has been thoroughly revised enhanced and reorganized to provide readers with a clear consistent learning experience that puts essential principles and concepts in a practical approachable context Updated content reflects the latest developments and perspectives across the full spectrum of physical pharmacy and a new full color design makes it easier than ever to discover distinguish and understand information providing users the most robust support available for applying the elements of biology physics and chemistry in work or study

Pharmaceutical Dosage Forms and Drug Delivery Ram I. Mahato, Ajit S. Narang, Virender Kumar, 2024-11-22 Completely revised and updated this fourth edition elucidates the principles of pharmaceutics biopharmaceutics dosage form design and drug delivery including emerging new biotechnology based treatment modalities The authors integrate aspects of physical pharmacy chemistry biology and biopharmaceutics into drug delivery With the expiration of older patents and generic competition the biopharmaceutical industry is evolving faster than ever Consequently this edition of the book emphasizes the heightened focus that the recent remarkable progress in gene editing immunotherapy and nanotechnology has brought to the design of new drugs and diagnostic approaches along

with novel dosage forms Apart from new chapters this edition highlights the emerging emphasis on the role of artificial intelligence AI in drug discovery mRNA and antibody based therapies genome editing immunotherapy chemical kinetics and the stability of drug products Features Includes new chapters on antibody therapeutics gene editing and immunotherapy Explains newer approaches and future methods and the significance of artificial intelligence AI in drug discovery Updated sections on pharmacy mathematics chemical kinetics and the stability of medicinal products Important updates on parenteral drug products protein and peptide treatments and biotechnology based pharmaceuticals to provide a contemporary perspective on drug development delivery and pharmaceutical sciences Expansion of review questions and answers to clarify concepts for students and add to their grasp of key concepts covered in this book Although there are numerous books on pharmaceuticals and dosage forms most cover different areas of the discipline and do not provide an integrated approach The integrated approach of this book not only provides a singular perspective of the overall field but also supplies a unified source of information for students instructors and professionals saving their time and money

Pharmaceutical Dosage Forms and Drug Delivery, Second Edition Ram I. Mahato, Ajit S. Narang, 2011-10-25 In the second edition of Pharmaceutical Dosage Forms and Drug Delivery the authors integrate aspects of physical pharmacy biopharmaceuticals drug delivery and biotechnology emphasizing the increased attention that the recent spectacular advances in dosage form design and drug delivery gene therapy and nanotechnology have brought to the field Highlights of the Second Edition Additional author Ajit S Narang brings an industrial practitioner perspective with increased focus on pharmacy math and statistics and powders and granules Reorganized into three parts Introduction Physicochemical Principles and Dosage Forms Chapters on pharmaceutical calculations compounding principles and powders and granules provide a complete spectrum of application of pharmaceutical principles Expansion of review questions and answers clarifies concepts for students and adds to their grasp of key concepts covered in the chapter Coverage of complexation and protein binding aspects of physical pharmacy includes the basic concepts as well as recent progress in the field Although there are numerous books on the science of pharmaceuticals and dosage form design most cover different areas of the discipline and do not provide an integrated approach to the topics This book not only provides a singular perspective of the overall field but it supplies a unified source of information for students instructors and professionals

[Nanoarchitectonics for Smart Delivery and Drug Targeting](#) Alina Maria Holban, Alexandru Mihai Grumezescu, 2016-07-12 Nanoarchitectonics for Smart Delivery and Drug Targeting is one of the first books on the market to exclusively focus on the topic of nanoarchitectonics a rapidly developing area of nanotechnology which allows scientists to arrange nanoscale structural units typically a group of atoms or molecules in an intended configuration This book assesses novel applications of nanomaterials in the areas of smart delivery and drug targeting using nanoarchitectonics and discusses the advantages and disadvantages of each application Provides a scholarly introduction to the uses of nanoarchitectonics in drug delivery and targeting Explores novel opportunities and ideas for

developing and improving nanoscale drug delivery systems through the use of nanoarchitectonics allowing scientists to see how this exciting new technology is used in practice Assesses the pros and cons of each application allowing readers to assess when it is most appropriate to use nanoarchitectonics in drug delivery

Handbook of Lung Targeted Drug Delivery Systems Yashwant Pathak, Nazrul Islam, 2021-10-17 Handbook of Lung Targeted Drug Delivery Systems Recent Trends and Clinical Evidences covers every aspect of the drug delivery to lungs the physiology and pharmacology of the lung modelling for lung delivery drug devices focused on lung treatment regulatory requirements and recent trends in clinical applications With the advent of nano sciences and significant development in the nano particulate drug delivery systems there has been a renewed interest in the lung as an absorption surface for various drugs The emergence of the COVID 19 virus has brought lung and lung delivery systems into focus this book covers new developments and research used to address the prevention and treatment of respiratory diseases Written by well known scientists with years of experience in the field this timely handbook is an excellent reference book for the scientists and industry professionals Key Features Focuses particularly on the chemistry clinical pharmacology and biological developments in this field of research Presents comprehensive information on emerging nanotechnology applications in diagnosing and treating pulmonary diseases Explores drug devices focused on lung treatment regulatory requirements and recent trends in clinical applications Examines specific formulations targeted to pulmonary systems

Basic Endocrinology: For Students of Pharmacy and Allied Health Andrzej Bartke, Andrew Constanti, 2019-02-13 This textbook has been written primarily for undergraduate students of pharmacy toxicology and medicine who require a concise reference book on basic endocrine function and dysfunction

Pharmacokinetics and Pharmacodynamics of Biotech Drugs Bernd Meibohm, 2006-12-13 This first ever coverage of the pharmacokinetic and pharmacodynamic characteristics of biopharmaceuticals meets the need for a comprehensive book in this field It spans all topics from lead identification right up to final stage clinical trials Following an introduction to the role of PK and PD in the development of biotech drugs the book goes on to cover the basics including the pharmacokinetics of peptides monoclonal antibodies antisense oligonucleotides as well as viral and non viral gene delivery vectors The second section discusses such challenges and opportunities as pulmonary delivery of proteins and peptides and the delivery of oligonucleotides The final section considers the integration of PK and PD concepts into the biotech drug development plan taking as case studies the preclinical and clinical drug development of tasidotin as well as the examples of cetuximab and pegfilgrastim The result is vital reading for all pharmaceutical researchers

Integrated Pharmaceutics Antoine Al-Achi, Mali Ram Gupta, William Craig Stagner, 2022-09-07 This work is an examination of all aspects of the science in developing effective dosage form for drug delivery Pharmaceutics refers to the subfield of pharmaceutical sciences that develops drug delivery products or devices to optimize the drug s performance once administered This multidisciplinary field draws on physical chemistry organic chemistry and biophysics to generate and refine these crucial elements of medical care

Moreover incorporating such disparate dimensions of drug product design as material properties and legal regulation bridges the gap between effective chemicals and viable medical treatments Integrated Pharmaceutics provides a comprehensive introduction to the creation and manufacture of effective dosage forms for drug delivery It presents its subject following the principles of physical pharmacy product design and drug regulations This tripartite structure allows readers to move from theory to practice beginning from a firm foundation of physical pharmacy principles including drug solubility and stability estimation rheology and interfacial properties From there it proceeds to discussions of drug product design and of harmonizing pharmaceutical design with the regulatory regimens and technological standards of the United States European Union and Japan Readers of the second edition of Integrated Pharmaceutics will also find A glossary defining key terms extensive informative appendices and a list of references leading to the primary literature in the field for each chapter Earlier chapters are expanded with additional new chapters including one entitled Biotechnology Products Supplementary instructor guide with questions and solutions available online for registered professors Updated regulatory guidelines including quality by design design space analysis process analytical technology polymorphism characterization blend sample uniformity and stability protocols Integrated Pharmaceutics is a useful textbook for graduate students in pharmaceutical sciences drug formulation and design and biomedical engineering In addition professionals in the pharmaceutical industry including regulatory bodies will find it a helpful reference guide Formulating Poorly Water Soluble Drugs Robert O. Williams III, Daniel A. Davis Jr., Dave A. Miller, 2022-05-19 The objective of this third edition is to consolidate within a single text the most current knowledge practical methods and regulatory considerations pertaining to formulations development with poorly water soluble molecules A pharmaceutical scientist s approach toward solubility enhancement of a poorly water soluble molecule typically includes detailed characterization of the compound s physiochemical properties solid state modifications advanced formulation design non conventional process technologies advanced analytical characterization and specialized product performance analysis techniques The scientist must also be aware of the unique regulatory considerations pertaining to the non conventional approaches often utilized for poorly water soluble drugs One faced with the challenge of developing a drug product from a poorly soluble compound must possess at a minimum a working knowledge of each of the above mentioned facets and detailed knowledge of most In light of the magnitude of the growing solubility problem to drug development this is a significant burden especially when considering that knowledge in most of these areas is relatively new and continues to develop **Immunology for Pharmacy Students** Wei-Chiang Shen, Stan G. Louie, 2019-02-13 Responding to the clear need for an immunology text written with the pharmacist and pharmaceutical scientist in mind this volume highlights issues of particular relevance to pharmacy practice including hypersensitivity reactions to natural allergens and pharmaceutical agents Core immunological issues such as congenital immunodeficiency disorder Fundamentals of Drug Delivery Heather A. E. Benson, Michael S. Roberts, Adrian C.

Williams,Xiaowen Liang,2021-09-30 A comprehensive guide to the current research major challenges and future prospects of controlled drug delivery systems Controlled drug delivery has the potential to significantly improve therapeutic outcomes increase clinical benefits and enhance the safety of drugs in a wide range of diseases and health conditions Fundamentals of Drug Delivery provides comprehensive and up to date coverage of the essential principles and processes of modern controlled drug delivery systems Featuring contributions by respected researchers clinicians and pharmaceutical industry professionals this edited volume reviews the latest research in the field and addresses the many issues central to the development of effective controlled drug delivery Divided in three parts the book begins by introducing the concept of drug delivery and discussing both challenges and opportunities within the rapidly evolving field The second section presents an in depth critique of the common administration routes for controlled drug delivery including delivery through skin the lungs and via ocular nasal and otic routes The concluding section summarizes the current state of the field and examines specific issues in drug delivery and advanced delivery technologies such as the use of nanotechnology in dermal drug delivery and advanced drug delivery systems for biologics This authoritative resource Covers each main stage of the drug development process including selecting pharmaceutical candidates and evaluating their physicochemical characteristics Describes the role and application of mathematical modelling and the influence of drug transporters in pharmacokinetics and drug disposition Details the physiology and barriers to drug delivery for each administration route Presents a historical perspective and a look into the possible future of advanced drug delivery systems Explores nanotechnology and cell mediated drug delivery including applications for targeted delivery and toxicological and safety issues Includes comprehensive references and links to the primary literature Edited by a team of internationally recognized experts Fundamentals of Drug Delivery is essential reading for researchers industrial scientists and advanced students in all areas of drug delivery including pharmaceuticals pharmaceutical sciences biomedical engineering polymer and materials science and chemical and biochemical engineering

Drug Delivery Monika Schäfer-Korting,2010-03-10 In the view of most experts pharmacology is on drugs targets and actions In the context the drug as a rule is seen as an active pharmaceutical ingredient and not as a complex mixture of chemical entities of a well defined structure Today we are becoming more and more aware of the fact that delivery of the active compound to the target site is a key The present volume gives a topical overview on various modern approaches to drug targeting covering today s options for specific carrier systems allowing successful drug treatment at various sites of the body difficult to address and allowing to increase the benefit risk ratio to the optimum possible *Fundamentals and Applications of Controlled Release Drug Delivery* Juergen Siepmann,Ronald A. Siegel,Michael J. Rathbone,2011-12-14 Pitched at a level comprehensible to those new to the field this authoritative text covers the scientific and technological fundamentals of drug delivery as well as clinical applications and the developmental potential in controlled release drug delivery *Fundamentals of Pharmacology* Ian Peate,Barry Hill,2021-02-08 All registered nurses must have a thorough

understanding and a strong knowledge of pharmacology medicines administration and the ability to recognise and react to the effects of medicines Fundamentals of Pharmacology helps nursing and healthcare students develop the skills and confidence required to apply the fundamental principles of pharmacology and to offer safe competent and compassionate care Concentrating on the medicines that students are most likely to encounter in real world practice this textbook provides concise coverage of pharmacology essential medicines management principles legal and ethical issues drug formulations analgesics immunisations and much more Clinically focused chapters feature defined learning outcomes multiple choice questions practical examples and full colour illustrations to aid readers comprehension of the complexities of pharmacology and care provision The book utilises a straightforward student friendly approach to present must have information with contributions from experienced clinicians and academics Describes how to use pharmaceutical and prescribing reference guides Stresses the role and importance of compassionate care throughout Contains a full range of pedagogical tools which enhance learning and recall Aligns with current NMC Standards and Proficiencies for Registered Nurses and Nursing Associates Supplemented and supported by a wealth of online extras and resources Fundamentals of Pharmacology is essential reading for all nursing students trainee nursing associates post registration nurses taking nurse prescribing or non medical prescribing modules and newly qualified nurses and nursing associates looking to better understand pharmacology

Polymer Adhesion, Friction, and Lubrication Hongbo Zeng, 2013-04-01 Specifically dedicated to polymer and biopolymer systems Polymer Adhesion Friction and Lubrication guides readers to the scratch wear and lubrication properties of polymers and the engineering applications from biomedical research to automotive engineering Author Hongbo Zeng details different experimental and theoretical methods used to probe static and dynamic properties of polymer materials and biomacromolecular systems Topics include the use of atomic force microscopy AFM to analyze nanotribology polymer thin films and brushes nanoparticles rubber and tire technology synovial joint lubrication adhesion in paper products bioMEMS and electrorheological fluids

Chitosan-Based Systems for Biopharmaceuticals Bruno Sarmento, Jose das Neves, 2012-02-16 Chitosan is a linear polysaccharide commercially produced by the deacetylation of chitin It is non toxic biodegradable biocompatible and acts as a bioadhesive with otherwise unstable biomolecules making it a valuable component in the formulation of biopharmaceutical drugs Chitosan Based Systems for Biopharmaceuticals provides an extensive overview of the application of chitosan and its derivatives in the development and optimisation of biopharmaceuticals The book is divided in four different parts Part I discusses general aspects of chitosan and its derivatives with particular emphasis on issues related to the development of biopharmaceutical chitosan based systems Part II deals with the use of chitosan and derivatives in the formulation and delivery of biopharmaceuticals and focuses on the synergistic effects between chitosan and this particular subset of pharmaceuticals Part III discusses specific applications of chitosan and its derivatives for biopharmaceutical use Finally Part IV presents diverse viewpoints on different issues such as regulatory manufacturing and

toxicological requirements of chitosan and its derivatives related to the development of biopharmaceutical products as well as their patent status and clinical application and potential Topics covered include chemical and technological advances in chitins and chitosans useful for the formulation of biopharmaceuticals physical properties of chitosan and derivatives in sol and gel states absorption promotion properties of chitosan and derivatives biocompatibility and biodegradation of chitosan and derivatives biological and pharmacological activity of chitosan and derivatives biological chemical and physical compatibility of chitosan and biopharmaceuticals approaches for functional modification or crosslinking of chitosan use of chitosan and derivatives in conventional biopharmaceutical dosage forms manufacture techniques of chitosan based microparticles and nanoparticles for biopharmaceuticals chitosan and derivatives for biopharmaceutical use mucoadhesive properties chitosan based systems for mucosal delivery of biopharmaceuticals chitosan based delivery systems for mucosal vaccination chitosan based nanoparticulates for oral delivery of biopharmaceuticals chitosan based systems for ocular delivery of biopharmaceuticals chemical modification of chitosan for delivery of DNA and siRNA target specific chitosan based nanoparticle systems for nucleic acid delivery functional PEGylated chitosan systems for biopharmaceuticals stimuli sensitive chitosan based systems for biopharmaceuticals chitosan copolymers for biopharmaceuticals application of chitosan for anti cancer biopharmaceutical delivery chitosan based biopharmaceuticals scaffolds in tissue engineering and regenerative medicine wound healing properties of chitosan and its use in wound dressing biopharmaceuticals toxicological properties of chitosan and derivatives for biopharmaceutical applications regulatory status of chitosan and derivatives patentability and intellectual property issues quality control and good manufacturing practice preclinical and clinical use of chitosan and derivatives for biopharmaceuticals Chitosan Based Systems for Biopharmaceuticals is an important compendium of fundamental concepts practical tools and applications of chitosan based biopharmaceuticals for researchers in academia and industry working in drug formulation and delivery biopharmaceuticals medicinal chemistry pharmacy bioengineering and new materials development

Drug Delivery Anya Hillery, Kinam Park, 2016-09-15 This book provides a comprehensive introduction to advanced drug delivery and targeting covering their principles current applications and potential future developments This edition has been updated to reflect significant trends and cutting edge advances that have occurred since the first edition was published All the original chapters have been retained but the material therein has been updated Eight new chapters have been added that deal with entirely new technologies and approaches Features Offers a comprehensive introduction to the fundamental concepts and underlying scientific principles of drug delivery and targeting Presents an in depth analysis of the opportunities and obstacles afforded by the application of nanotechnologies for drug delivery and targeting Includes a revised and expanded section on the major epithelial routes of drug delivery currently under investigation Describes the most recent emerging and innovative technologies of drug delivery Provides real life examples of the clinical translation of drug delivery technologies through the use of case studies Discusses the pertinent

regulatory hurdles and safety issues of drug delivery and targeting systems crucial considerations in order to achieve licensing approval for these new technologies *Engineering Polymer Systems for Improved Drug Delivery* Rebecca A. Bader, David A. Putnam, 2014-01-17 Polymers have played a critical role in the rational design and application of drug delivery systems that increase the efficacy and reduce the toxicity of new and conventional therapeutics Beginning with an introduction to the fundamentals of drug delivery *Engineering Polymer Systems for Improved Drug Delivery* explores traditional drug delivery techniques as well as emerging advanced drug delivery techniques By reviewing many types of polymeric drug delivery systems and including key points worked examples and homework problems this book will serve as a guide to for specialists and non specialists as well as a graduate level text for drug delivery courses **Natural Polymers for Drug Delivery** Harsha Kharkwal, Srinivas Janaswamy, 2016-12-07 Natural polymers have been utilized extensively in food pharmaceuticals cosmetics textiles oil drilling and paint industries Their non toxic and inexpensive attributes readily enhance their commercial acceptability and make them potent agents in lieu of synthetic polymers This book explores the opportunistic utility of natural polymers in developing effective drug delivery systems and provides a comprehensive and up to date analysis of their source chemical structure and mechanism of action Covering novel polymers for drug delivery in particular extracts from plants microorganisms and proteins as well as water soluble and water insoluble biodegradable polymers it presents an encyclopaedic overview of natural polymers *Natural Polymers for Drug Delivery* is an invaluable resource for researchers students and industrial scientists in the fields of biochemistry chemistry pharmacology and food science

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