

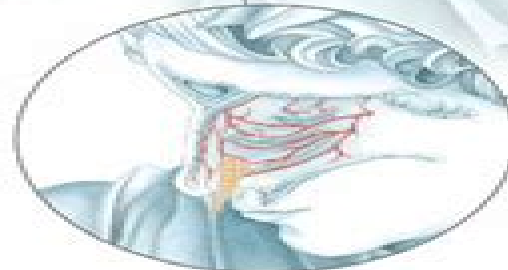
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AS AN ALTERNATIVE TO INJECTION

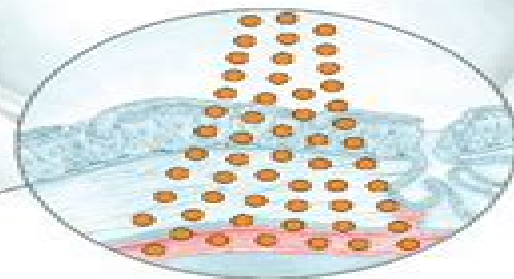
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# Nasal Systemic Drug Delivery

**Joseph K. H. Ma, Boka Hadzija**



## **Nasal Systemic Drug Delivery:**

**Gibaldi's Drug Delivery Systems in Pharmaceutical Care** Mary Lee, Archana Desai, 2007 Tying together concepts of traditional pharmaceuticals in a way this text focuses on the selection of appropriate dosage forms as an integral part of drug therapy

**Modified-Release Drug Delivery Technology** Michael J. Rathbone, Jonathan Hadgraft, Michael S. Roberts, 2002-11-07 Describing formulation challenges and their solutions in the design development and commercialization of modified release drugs delivery systems this book contains eighty papers that review recent developments in design and manufacturing techniques It includes detailed descriptions of extended release drug products for the oral nasal ophthalmic pulmonary vaginal dermal and transdermal pathways With the exception of the final section addressing regulatory issues each section covers a particular route for drug delivery and opens with an overview of the anatomical physiological and pharmaceutical basics of each route before moving on to cover specific technologies

*Nanomaterials and Nanosystems for Biomedical Applications* M. Reza Mozafari, 2007-09-19 Under a single cover this book brings together various aspects of functional bioengineered materials and nanostructured biomaterials including commonly used implants and sustained release nanodevices The book includes expert reviews on the advances and current problems associated with the implants and nanodevices Containing recent citations and bibliographies this book will be an indispensable source of information for new researchers and scientists

**Direct Nose-to-Brain Drug Delivery** Chandrakantsing Pardeshi, Eliana B. Souto, 2021-06-16 Direct Nose to Brain Drug Delivery provides the reader with precise knowledge about the strategies and approaches for enhanced nose to brain drug delivery It highlights the development of novel nanocarrier based drug delivery systems for targeted drug delivery to the brain microenvironments with a focus on the technological advances in the development of the novel drug delivery devices for intranasal administration including special emphasis on brain targeting through nose This book explores the various quantification parameters to assess the brain targeting efficiency following intranasal administration and includes an overview on the toxicity aspects of the various materials used to develop the direct nose to brain drug delivery vehicles and of the regulatory aspects including patents and current clinical status of the potential neurotherapeutics for the effective management of neuro ailments Technological advances in new drug delivery systems with diverse applications in pharmaceutical biomedical biomaterials and biotechnological fields are also explained This book is a crucial source that will assist the veteran scientists industrial technologists and clinical research professionals to develop new drug delivery systems and novel drug administration devices for the treatment of neuro ailments Explains the targeting approaches for enhanced brain targeting following intranasal drug administration Explores the various nanocarriers developed to date for neurotherapeutic delivery via nose to brain Discusses pharmaceutical and biomedical applications after nose to brain delivery of therapeutic pharmaceuticals and biologicals

**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

**Nanomaterials** Simona Clichici, Gabriela Adriana Filip, Gustavo Morari Do Nascimento, 2020-02-19 In the last decade nanomaterials have become a double edged sword On one hand nanomaterials have proven their limitless potential not only for technological applications but also for medical ones On the other hand the increasing use of these nanomaterials has raised concerns regarding their safety for environmental and human health due to their potential toxicity The toxic effects of nanomaterials depend on their type surface geometry diameter length and function This book intends to provide a comprehensive evidence based overview of nanomaterial toxicity from their synthesis and characterization environmental impact tests to assess their toxicity in vitro and in vivo ways to modulate their impact on living organisms to their beneficial use in biomedical applications

**Processed Excipients in Advanced Drug Delivery** Sudarshan Singh, Bhupendra Prajapati, Rishabha Malviya, Sonali Sundram, 2025-10-21 Excipients are important components of drug formulations playing a critical role in ensuring the safety efficacy and stability of pharmaceutical products In recent years there has been a growing demand for advanced drug delivery systems that can improve the bioavailability targeting and sustained release of therapeutics The development of these systems relies heavily not only on excipients but also on the use of processed excipients which have been specifically designed and engineered to meet the unique challenges and requirements of advanced drug delivery This new volume provides a comprehensive overview of the state of art research on processed excipients and their utilization in fabrication of advanced drug delivery Beginning with an introduction and overview the volume covers novel solid dosage forms pharmaceutical and biomedical applications nasal drug delivery ocular drug delivery transdermal drug delivery parenteral medication delivery pharmacokinetics and pharmacodynamics of processed excipients and much more

**Micro- and Nanotechnology in Vaccine Development** Mariusz Skwarczynski, Istvan Toth, 2016-09-20 This book provides a comprehensive overview of how use of micro and nanotechnology MNT has allowed major new advance in vaccine development research and the challenges that immunologists face in making further progress MNT allows the creation of particles that exploit the inherent ability of the human immune system to recognize small particles such as viruses and toxins In combination with minimal protective epitope design this permits the creation of immunogenic particles that stimulate a response against the targeted pathogen The finely tuned response of the human immune system to small particles makes it unsurprising that many of the lead adjuvants and vaccine delivery systems currently under investigation are based on nanoparticles Provides a comprehensive and unparalleled overview of the role of micro and nanotechnology in vaccine

development Allows researchers to quickly familiarize themselves with the broad spectrum of vaccines and how micro and nanotechnologies are applied to their development Includes a combination of overview chapters setting out general principles and focused content dealing with specific vaccines making it useful to readers from a variety of disciplines

*Basic Physical Pharmacy* Joseph K. H. Ma, Boka Hadzija, 2013 Basic Physical Pharmacy provides a thorough yet accessible overview of the principles of physical pharmacy and their application in drug formulation and administration This definitive guide to physical pharmacy covers all types of pharmaceuticals from traditional forms and dosages to nanotechnology based novel dosage design Authored by two nationally recognized pharmaceutical scientists and active pharmacy faculty Basic Physical Pharmacy is clearly organized into four sections Physical Pharmacy in Solutions Solid Dosage Forms Polyphasic Systems and Drug Delivery and Novel Drug Delivery Systems Students can build upon their chemistry education to learn the physicochemical properties of drugs and their therapeutic effects on the body With a highly accessible approach Basic Physical Pharmacy will help students comprehend and apply the principles of physical pharmacy in clinical practice Covers major drug products and delivery systems Features current trends in pharmaceutical research and development including nanotechnology based dosage design Includes many examples of useful equations and formulation methods Contains over 200 illustrations photos and tables Topics Include Solutions Ionization of Drugs in Solutions Buffers and Buffered Solutions Drug Solubility Diffusion and Dissolution Distribution Phenomena Complexation and Protein Binding Interfacial Phenomena Rheology Colloids Suspensions and Emulsions Semisolid Dosage Forms Dermatologicals Suppositories Powders Capsules Tablets Aerosols Sterile Dosage Forms Ophthalmic Formulations Radiopharmaceuticals Modified Release Drug Delivery Systems Biotechnology Products Drug Product Stability Each new print textbook includes an access code for the online Companion Website Ebooks do not include access to the Companion Website Access to the Companion Website may also be purchased separately under the RESOURCES tab FOR STUDENTS Student Companion Website includes Cross Words Flash Cards Interactive Glossary Matching Questions Instructor Resources Answers to End of Chapter Questions Image Bank Power Point Presentations Test Bank

**Aulton's Pharmaceutics** Michael E. Aulton, Kevin Taylor, 2013 Pharmaceutics is the art of pharmaceutical preparations It encompasses design of drugs their manufacture and the elimination of micro organisms from the products This book encompasses all of these areas Provided by publisher

**Sterile Product Development** Parag Kolhe, Mrinal Shah, Nitin Rathore, 2013-10-12 This comprehensive book encompasses various facets of sterile product development Key concepts relevant to the successful development of sterile products are illustrated through case studies and are covered under three sections in this book Formulation approaches that discuss a variety of dosage forms including protein therapeutics lipid based controlled delivery systems PEGylated biotherapeutics nasal dosage form and vaccines Process container closure and delivery considerations including freeze thaw process challenges best practices for technology transfer to enable commercial product development innovations and advancement in aseptic fill finish operations

approaches to manufacturing lyophilized parenteral products pen auto injector delivery devices and associated container closure integrity testing hurdles for sterile product closures Regulatory and quality aspects in the areas of particulate matter and appearance evaluation sterile filtration admixture compatibility considerations sterilization process considerations microbial contamination investigations and validation of rapid microbiological methods and dry and moist heat sterilizers This book is a useful resource to scientists and researchers in both industry and academia and it gives process and product development engineers insight into current industry practices and evolving regulatory expectations for sterile product development

**Pharmaceutical Manufacturing Handbook** Shayne Cox Gad, 2008-03-17 This handbook features contributions from a team of expert authors representing the many disciplines within science engineering and technology that are involved in pharmaceutical manufacturing They provide the information and tools you need to design implement operate and troubleshoot a pharmaceutical manufacturing system 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

**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

**Aqueous Polymeric Coatings for Pharmaceutical Dosage Forms, Third Edition** Linda A. Felton, James W.

McGinity, 2008-01-09 Thoroughly updated and expanded this new Third Edition provides the latest information on dosage forms, film defects, and polymer characterization. Written by renowned leaders in the field, *Aqueous Polymeric Coatings for Pharmaceutical Dosage Forms* is easily the most comprehensive book available on the market today. New to the Third Edition: the interaction of drugs with functional polymers; the influence of processing parameters on coating quality; the stabilization of polymeric film coats; plasticizers and their applications in pharmaceutical coatings; adhesion of polymeric films to solid substrates; basic properties of latex and pseudolatex colloidal dispersions. Key topics included: polymer interactions with drugs and excipients; physical aging of polymeric films; a complete overview and in-depth analysis of recent advances in the field, which includes information on the latest equipment used to apply polymers to a pharmaceutical system; illustrated examples explaining the appropriate steps to be taken in order to solve formulation, processing, and stability problems to achieve an optimized dosage form.

**3D/4D Printing of Bioadhesive Pharmaceutical Systems** Marcos Luciano Bruschi, Denise Tiemi Uchida, Mariana Carla de Oliveira, 2024-11-15 This book features a brief history of additive manufacturing and 3D/4D printing techniques, as well as the advantages, applications, and overall challenges facing the technology. It then focuses on the applications of bioadhesive systems for drug delivery. *3D/4D Printing of Bioadhesive Pharmaceutical Systems: Additive Manufacturing and Perspectives* explores recent discoveries of 3D printing in the development of pharmaceutical systems and drug delivery. Specifically, it discusses the main polymers/materials used in the development of bioadhesive pharmaceutical systems and explains the importance of bioadhesiveness of drug release through 3D printing. The authors also introduce the main strategies necessary to achieve a proper drug delivery system through 3D printing and examine the adhesiveness of these systems on the skin as the mucosa decreases with the elimination of the drug by the body. Finally, the book brings all the necessary specifications to obtain a bioadhesive system with suitable bioink to obtain the best 3D/4D printing. This book is written with the objective of helping students start their studies in pharmaceutical engineering, bioengineering, and additive manufacturing. Moreover, engineering professionals can use the book to improve the performance of 3D/4D printers for this type of system.

Routes of Drug Administration A. T. Florence, E. G. Salole, 2013-10-22 *Routes of Drug Administration* covers topics about parenteral and enteral routes of drug administration. The book discusses the anatomy and physiology of administration sites, the formulation and design of delivery systems, and other relevant aspects of biopharmaceutics. The text describes pulmonary, delivery, nasal, buccal, and transdermal routes of administration for systemic delivery, as well as a number of systems for more localized therapy with antibiotics. Innovative methods of antibiotic administration, such as continuous and intermittent infusion, endotracheal installation, aerosol delivery, antibiotic-impregnated catheters, antibiotic-containing bone cement, and beads, are also considered. Senior undergraduate and postgraduate students in pharmacy, medicine, nursing, and allied health sciences, and practitioners in these fields, as well as

other professionals concerned with the preparation and administration of medicines and the monitoring of drug therapy will find the book useful

**The Handbook of Nanomedicine** Kewal K. Jain, 2012-07-06 Nanomedicine is defined as the application of nanobiotechnology in clinical medicine which is currently being used to research the pathomechanism of disease refine molecular diagnostics and aid in the discovery development and delivery of drugs In The Handbook of Nanomedicine Second Edition Prof Kewal K Jain updates reorganizes and replaces information in the comprehensive first edition in order to capture the most recent advances in this dynamic field Important components of nanomedicine such as nanodiagnostics and nanopharmaceuticals where the greatest number of advances are occurring are covered extensively As this text is aimed at nonmedical scientists pharmaceutical personnel as well as physicians descriptions of the technology involved and other medical terminology are kept as clear and simple as possible In depth and cutting edge The Handbook of Nanomedicine Second Edition informs its readers of the ever growing field of nanomedicine destined to play a significant role in the future of healthcare

*Proteins and Peptides* Randall J. Mersny, Ann Daugherty, 2009-10-19 Addressing the increased use of protein and peptide candidates as treatments for previously untreatable diseases this comprehensive and progressive source provides the reader with a roadmap to an increased understanding of issues critical for successfully developing a protein or peptide therapeutic candidate Proteins and Peptides is

Handbook of Bioequivalence Testing Sarfaraz K. Niazi, 2007-08-22 As the generic pharmaceutical industry continues to grow and thrive so does the need to conduct efficient and successful bioequivalence studies In recent years there have been significant changes to the statistical models for evaluating bioequivalence and advances in the analytical technology used to detect drug and metabolite levels have made

**Pharmaceutical Photostability and Stabilization Technology** Joseph T. Piechocki, Karl Thoma, 2006-09-18 Based on a training course developed by Dr Joseph T Piechocki and other experts in this field whose contributions appear in this book for two International Meetings on the Photostability of Drugs and Drug Products this text clarifies the guidelines set by the International Conference on Harmonization ICH and provides a comprehensive background



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