Vinod P. Shah · Howard I. Maibach John Jenner Editors

# Topical Drug Bioavailability, Bioequivalence, and Penetration

Second Edition

Hanjiang Zhu, Howard I. Maibach

Topical Drug Bioavailability, Bioequivalence, and Penetration Vinod P. Shah, Howard I. Maibach, John Jenner, 2015-01-30 This authoritative volume explores advances in the techniques used to measure percutaneous penetration of drugs and chemicals to assess bioavailability and bioequivalence and discusses how they have been used in clinical and scientific investigations Seven comprehensive sections examine topics including in vitro drug release topical drugs products clinical studies and guidelines and workshop reports among others. The book also describes how targeted transdermal drug delivery and more sophisticated mathematical modelling can aid in understanding the bioavailability of transdermal drugs The first edition of this book was an important reference guide for researchers working to define the effectiveness and safety of drugs and chemicals that penetrated the skin This second edition contains cutting edge advances in the field and is a key resource to those seeking to define the bioavailability and bioequivalence of percutaneously active compounds to improve scientific and clinical investigation and regulation Skin Decontamination Hanjiang Zhu, Howard I. Maibach, 2019-09-26 The skin is the first line of defense against chemical warfare agents including nerve agents and toxic industrial chemicals providing a possible barrier or delay to systemic distribution However some chemicals act directly on the skin including vesicants sulfur mustard and corrosive compounds such as strong acids or bases and do not have to gain access to systemic circulation to cause extensive skin damage Early and rapid skin decontamination is extremely important following exposure to chemical warfare agents and toxic industrial chemicals because it decreases serious skin damage to the patient and potentially their doctor This multi authored international text pulls together a century of decontamination research and helps the reader expedite solutions that will decrease morbidity and mortality Complete with dozens of high quality photographs and illustrations Skin Decontamination aids industrial hygiene dermatology occupational physicians and those involved in the public health arena Translating Molecules into Medicines Shobha N. Bhattachar, John S. Morrison, Daniel R. Mudra, David M. Bender, 2017-04-21 Tackling translational medicine with a focus on the drug discovery development interface this book integrates approaches and tactics from multiple disciplines rather than just the pharmaceutical aspect of the field The authors of each chapter address the paradox between the molecular understanding of diseases drug discovery and drug development Laying out the detailed trends from various fields different chapters are dedicated to target engagement toxicological safety assessments and the compelling relationship of optimizing early clinical studies with design strategies The book also highlights the importance of balancing the three pillars sufficient efficacy acceptable safety and appropriate pharmacokinetics all of which are crucial to successful efforts in discovery and development With discussions regarding the combined approaches of molecular research personalized medicine pre clinical and clinical development as well as targeted therapies this compendium is a flexible fit perfect for professionals in the pharmaceutical industry and related academic fields Percutaneous Penetration Enhancers Physical Methods in Penetration Enhancement Nina

Dragicevic, Howard I. Maibach, 2017-05-04 Percutaneous Penetration Enhancers in a mini series format comprising five volumes represents the most comprehensive reference on enhancement methods both well established and recently introduced in the field of dermal transdermal drug delivery In detail the broad range of both chemical and physical methods used to enhance the skin delivery of drugs is described All aspects of drug delivery and measurement of penetration are covered and the latest findings are provided on skin structure and function mathematics in skin permeation and modern analytical techniques adapted to assess and measure penetration In offering a detailed description of the methods currently in use for penetration enhancement this book will be of value for researchers pharmaceutical scientists practitioners and also Skin Permeation and Disposition of Therapeutic and Cosmeceutical Compounds Kenji Sugibayashi, 2017-11-28 This book reviews skin permeation and disposition of chemical compounds Skin is utilized as an administration site for transdermal drug delivery systems topical drug formulations cosmeceuticals and cosmetics Their usefulness is closely related to the permeation and disposition of entrapped active ingredients through and into the skin Skin permeation disposition and metabolism of chemicals are first summarized in the general introduction Then primary topical formulations are explained in the second part Basic Formulations Applied to Skin The explanation for the active compounds and formulations are of the most important parts required to fabricate these formulations Skin absorption of chemicals is generally much lower than oral and the other mucosal absorptions so that skin penetration enhancement is a key issue to have good formulations topically applied Part 3 presents Skin Penetration Enhancement In addition Part 4 Selection of Topically Applied Chemical Candidates deals with selection methods of topically applied ingredients for transdermal drug delivery systems topical drug formulations cosmeceuticals and cosmetics Parts 5 and 6 Safety Assessment of Topically Applied Compounds and Experimental Methods of Skin Permeation respectively show safety issues and experimental methods for topical formulations The final part consists of comments on therapeutic and cosmetic formulations by medical doctors and pharmacists Their comments are especially helpful for pharmaceutical and cosmetic researchers who study dermatopharmacokinetics and topical formulations This volume is particularly useful for those working in R D graduate students and educators in the area of pharmaceutics cosmetic sciences dermatological sciences pharmacology toxicology biopharmacy pharmacokinetics physical pharmacy chemical engineering and related fields Drug Delivery Systems Kewal K. Jain, 2008-03-07 In this concise and systematic book a team of experts select the most important cutting edge technologies used in drug delivery systems They take into account significant drugs new technologies such as nanoparticles and therapeutic applications The chapters present step by step laboratory protocols following the highly successful Methods in Molecular BiologyTM series format offering readily reproducible results vital for pharmaceutical physicians and scientists Cosmetic Science and Technology: Theoretical Principles and Applications Kazutami Sakamoto, Robert Y.

Lochhead, Howard I. Maibach, Yuji Yamashita, 2017-03-03 Cosmetic Science and Technology Theoretical Principles and

Applications covers the fundamental aspects of cosmetic science that are necessary to understand material development formulation and the dermatological effects that result from the use of these products The book fulfills this role by offering a comprehensive view of cosmetic science and technology including environmental and dermatological concerns As the cosmetics field quickly applies cutting edge research to high value commercial products that have a large impact in our lives and on the world's economy this book is an indispensable source of information that is ideal for experienced researchers and scientists as well as non scientists who want to learn more about this topic on an introductory level Covers the science preparation function and interaction of cosmetic products with skin Addresses safety and environmental concerns related to cosmetics and their use Provides a graphical summary with short introductory explanation for each topic Relates product type performance to its main components Describes manufacturing methods of oral care cosmetics and body cosmetics in a systematic manner <u>Dermal Drug Delivery</u> Tapash K. Ghosh, 2020-01-21 With the continued advancement of better quality control and patient outcome reporting systems changes in the development control and regulation of all pharmaceutical delivery systems including transdermal and topical products have been happening on a continuous basis In light of various quality issues that have been reported by patients and practitioners resulting in the recall or removal of products from the market both the pharmaceutical industries and regulatory agencies have been adopting new measures to address these issues With chapters written by experts in this field this book takes a 21st century multidisciplinary and cross functional look at these dosage forms to improve the development design manufacturing quality clinical performance safety and regulation of these products This book offers a wealth of up to date information organized in a logical sequence corresponding to various stages of research development and commercialization of dermal drug delivery products The authors have been carefully selected from different sectors of pharmaceutical science for their expertise in their selected areas to present objectively a balanced view of the current state of these products development and commercialization via regulatory approval Their insights will provide useful information to others to ensure the successful development of the next generation dermal drug products Key Features Presents current advancements including new technologies of transdermal and topical dosage forms Presents challenges in the development of the new generation of transdermal and topical dosage forms Introduces new technologies and QbD quality by design aspects of manufacturing and control strategies Includes new perspectives on pre clinical and clinical development regulatory considerations safety and quality Discusses regulatory challenges gaps and future considerations for dermal drug delivery systems Hayes' Principles and Methods of Toxicology A. Wallace Hayes, Claire L. Kruger, 2014-10-10 Hayes Principles and Methods of Toxicology has long been established as a reliable reference to the concepts methodologies and assessments integral to toxicology The new sixth edition has been revised and updated while maintaining the same high standards that have made this volume a benchmark resource in the field With new authors and new chap **Electricity and Magnetism in Biology and Medicine** Ferdinando Bersani, 2012-12-06 In the

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