

# Percutaneous Absorption

- Transdermal absorption/percutaneous absorption
- Toxicants pass through the cell layers before entering the small blood and lymph capillaries in the dermis
- A complex event with many key factors relating to the physical, chemical, and biochemical constitution of the skin overlaid with the vast range of physicochemical behavior of the penetrant

# Percutaneous Absorption

**Robert L. Bronaugh, Howard I. Maibach**



## **Percutaneous Absorption:**

Skin Barrier H. Schaefer, T. E. Redelmeier, 1996-09-26 Skin Barrier is the first book to be written exclusively by researchers for researchers as a convenient desktop reference. It focuses on several key aspects of the skin barrier including composition and structure and a description of the properties governing the diffusion of compounds across the skin. Although there has been a large number of laboratories involved in measuring percutaneous absorption over the past 15 to 20 years, it is only recently that there has been a general consensus in the scientific community regarding the development of standard protocols. Recognizing the importance of this, the authors have included two chapters detailing the protocol used in measuring and predicting percutaneous absorption and a discussion on the practical application of these techniques to solve associated problems. In order to provide the researcher and especially the student with access to more detailed information, the book features a comprehensive listing of references published over the past 10 years. Skin Barrier is the only desktop reference for dermatologists, cosmetologists, biochemists, biologists, and those in the pharmaceuticals industry who need detailed and accurate information about the skin barrier on a daily basis. No R & D department should be without a copy.

**Percutaneous Absorption** Nina Dragičević, Howard Maibach, 2021-07-29 Updating and expanding the scope of topics covered in the previous edition, *Percutaneous Absorption: Drugs, Cosmetics, Mechanisms, Methods*, Fifth Edition, supplies new chapters on topics currently impacting the field, including cutaneous metabolism, skin contamination, exposure to protein allergens, in vitro absorption methodology, and the percutaneous absorption of chemical mixtures. Complete with studies on the role of the skin as a key portal of entry for chemicals into the body, this book serves as a detailed reference source for recent advances in the field, as well as an experimental guide for laboratory personnel. **Key Features:** Details in vivo and in vitro methods for measuring absorption; dermal decontamination mechanisms of transdermal delivery and the relationship of transepidermal water loss to percutaneous absorption; considers a range of mathematical models; the safety evaluation of cosmetic ingredients; the absorption of hair dyes, nanoparticles for drug delivery, and other novel methods of drug delivery. Discusses topics including skin metabolism, the skin reservoir, and the effects of desquamation on absorption. **In Vitro**

**Percutaneous Absorption** Robert L. Bronaugh, Howard I. Maibach, 2023-06-14 This book covers all major areas of interest in the rapidly expanding field of in vitro methods for percutaneous absorption studies. Specific areas discussed include diffusion, cell design, receptor fluid preparation of skin, and temperature. The book covers experimental methodology as well as the underlying principles and fundamentals that help professionals and students gain an understanding of the basis for currently used methodology. *Percutaneous Absorption* Robert L. Bronaugh, Howard I. Maibach, 1989 **Methods for**

**Skin Absorption** Barbara W. Kempainen, William G. Reifenrath, 2024-11-15 This up-to-date volume describes the wide variety of available methods concerning percutaneous absorption of drugs and toxins. It discusses in detail the advantages and disadvantages of each method. This unique publication provides a clear, systematic presentation of each aspect which

must be considered when designing and performing skin penetration experiments and when interpreting results It includes specific information regarding necessary supplies and equipment along with commercial sources for these items This state of the art book is an ideal instructional manual for investigators uninitiated in performing percutaneous absorption and metabolism studies Those involved with investigative dermatology dermatological research toxicology and pharmacology will find this reference interesting and indispensable

**Percutaneous Absorption** Robert L. Bronaugh, Howard I. Maibach, 2010 [Methods for Skin Absorption](#) Barbara W. Kempainen, William G. Reifenrath, 1990-06-13 This up to date volume describes the wide variety of available methods concerning percutaneous absorption of drugs and toxins It discusses in detail the advantages and disadvantages of each method This unique publication provides a clear systematic presentation of each aspect which must be considered when designing and performing skin penetration experiments and when interpreting results It includes specific information regarding necessary supplies and equipment along with commercial sources for these items This state of the art book is an ideal instructional manual for investigators uninitiated in performing percutaneous absorption and metabolism studies Those involved with investigative dermatology dermatological research toxicology and pharmacology will find this reference interesting and indispensable

**Percutaneous Absorption** Robert L. Bronaugh, Howard I. Maibach, 1999-05-28 Since publication of the Second Edition in 1989 numerous innovations have occurred that affect the way scientists look at issues in the field of percutaneous absorption Focusing on recent advances as well as updating and expanding the scope of topics covered in the previous edition Percutaneous Absorption Third Edition provides thorough coverage of the skin's role as an important portal of entry for chemicals into the body Assembles the work of nearly 80 experts 30 more than the Second Edition into a unified comprehensive volume that contains the latest ideas and research Complete with nearly 600 drawings photographs equations and tables and more than 1600 bibliographic citations of pertinent literature Percutaneous Absorption Third Edition details the applied biology of percutaneous penetration factors that affect skin permeation such as age vehicles metabolism hydration of skin and chemical structure in vivo and in vitro techniques for measuring absorption examining factors influencing methodology such as animal models volatility of test compound multiple dosage and artificial membranes procedures for use in transdermal delivery exploring topics such as effects of penetration enhancers on absorption optimizing absorption and the topical delivery of drugs to muscle tissue And presents new chapters on mathematical models cutaneous metabolism prediction of percutaneous absorption in vitro absorption methodology dermal decontamination concentration of chemicals in skin transdermal drug delivery mechanisms of absorption safety evaluation of cosmetics absorption of drugs and cosmetic ingredients nail penetration Emphasizes human applications particularly useful for pharmacists pharmacologists dermatologists cosmetic scientists biochemists toxicologists public health officials manufacturers of cosmetic and toiletry products and graduate students in these disciplines An invaluable reference source for readers who need to keep up with the latest developments in the field

Percutaneous Absorption Third Edition is also an excellent experimental guide for laboratory personnel

**Dermal Absorption and Toxicity Assessment** Michael S. Roberts, 2007-12-14 The source Dermal Absorption and Toxicity Assessment supplies a state of the art overview of the dermal absorption process and is divided into six well organized sections Written by internationally recognized experts in the field this Second Edition is a complete revised and updated text covering the wide range of methods used to assess skin ab

**Textbook of Aging Skin** Miranda A. Farage, Kenneth W. Miller, Howard I. Maibach, 2009-12-02 This comprehensive Major Reference Book compiles all current and latest information on aging skin in a two volume set Highly structured with a reader friendly format it covers a wide range of areas such as basic sciences the different diseases and conditions which occur with aging from malignant to non malignant the latest techniques and methods being used such as bioengineering methods and biometrics as well as toxicological and safety considerations for the elderly population It also illustrates the global consumers sociological and psychological implications ethnicity and gender differences and includes marketing considerations for this elderly group This unique and comprehensive guide will become the main reference textbook on this topic

*Dermal Absorption* J. Kielhorn, Stephanie Melching-Kollmuss, I. Mangelsdorf, World Health Organization, 2006 Introduction and definitions Skin structure and function Skin transport mechanisms and theoretical concepts Metabolism in the skin In vitro tests for dermal absorption In vivo tests for dermal absorption Comparative studies Data collections Estimation prediction of dermal penetration Use of dermal penetration studies in risk assessment Controversial topics in the assessment of dermal absorption Conclusions and recommendations

*Dermatotoxicology* Klaus Peter Wilhelm, Hongbo Zhai, Howard I. Maibach, 2007-11-26 Reflecting the embryonic state of the field the first edition of Dermatotoxicology published in 1977 numbered 567 pages Now the foundational reference in dermal toxicology this seventh edition consists of 1 032 pages and defines what was once a largely intuitive field but has evolved into an established science of metrics and mechanisms Updated

**Percutaneous Absorption : Mechanisms - Methodology - Drug Delivery , Revised and Expanded** Bronaugh RL Ed, 1989 The microscopic structure of the epidermis and its derivatives Mathematical models of percutaneous absorption Mechanism of percutaneous absorption from physicochemical evidence Cutaneous metabolism of xenobiotics Occlusion does not uniformly enhance penetration in vivo Structure activity correlations in percutaneous absorption Regional variation in percutaneous absorption Cutaneous permeation of lipophilic molecules effects of enhancers Studies on the permeability of infant skin Interaction of vehicles with model skin membranes in the permeation process In vivo relationship between percutaneous absorption and transepidermal water loss Skin contamination and absorption of chemicals from drinking water while bathing or swimming Classification of percutaneous penetration enhancers a conceptual diagram In vivo methods for percutaneous absorption measurements In vivo animal models for percutaneous absorption Determination of percutaneous absorption by in vitro techniques The influence of metabolism on percutaneous absorption Localization of compounds in different skin layers and its use as an

indicator of percutaneous absorption Evaporation and penetration from skin Dermal decontamination and percutaneous absorption Interrelationships in the dose response of percutaneous absorption Blood flow as a technology in percutaneous absorption the assessment of the cutaneous microcirculation by laser doppler and photoplethysmographic techniques Calculations of body exposure from percutaneous absorption data Human skin sandwich flap model for percutaneous absorption Stripping method for measuring percutaneous absorption in vivo Noninvasive radioisotope counting on skin surface or external counting The human skin blanching assay as an indicator of topical corticosteroid bioavailability and potency an update Skin absorption from patch test systems relevance to allergic contact dermatitis and transdermal delivery systems In vitro systems for the assessment of drug release from topical formulations and transmembrane permeation Percutaneous penetration as a method of delivery to muscle and other tissue Optimizing percutaneous absorption Facilitated percutaneous absorption of charged drugs Action of penetration enhancers on human stratum corneum as assessed by differential scanning calorimetry Ultrasound as a transdermal enhancer Iontophoretic Drug Delivery Effects of physicochemical factors on the skin uptake of drugs In vivo percutaneous absorption effect of repeated application versus single dose In vitro testing of topical pharmaceutical formulations

PERCUTANEOUS ABSORPTION. Richard B. Stoughton, WESTERN RESERVE UNIV CLEVELAND OH., 1963 A summary is given of studies concerning various aspects of the absorption of biologically active substances through the human skin **Cumulated Index Medicus**, 1988

DERMATOTOXICOLOGY 4ED Francis Nicholas Marzulli, Howard I. Maibach, 1991-06-01 A guide to the field of dermatotoxicology This edition includes fundamental information on the mechanisms of action of toxic substances on skin as well as practical information on the varied responses of skin to specific toxic substances and approaches to evaluating dermal toxicity Other topics discussed include hostile natural elements such as ultraviolet radiation poisonous plants man made detergents and chemicals problems associated with chronic occupational skin exposure to toxic chemicals animal alternative research programmes carcinogenic and Photo Carcinogenic Potential Of Xenobiotic Chemicals Oculotoxicity Risk assessment and management and cosmetic safety Anatomical factors affecting barrier functions lipids of the permeability barrier the skin immune system **Predictive Methods in Percutaneous Absorption** Gary P. Moss, Darren R. Gullick, Simon C.

Wilkinson, 2015-07-01 This book sheds new light on the development and use of quantitative models to describe the process of skin permeation It critically reviews the development of quantitative predictive models of skin absorption and discusses key recommendations for model development Topics presented include an introduction to skin physiology the underlying theories of skin absorption the physical laboratory based processes used to generate skin absorption data which is in turn used to construct mathematical models describing the skin permeation process algorithms of skin permeability including quantitative structure activity or permeability relationships QSARs or QSPRs relationships between permeability and molecular properties the development of formulation focused approaches to models of skin permeability prediction the use of

artificial membranes e g polydimethylsiloxane as alternatives to mammalian skin and lastly the use of novel Machine Learning methods in developing the next generation of predictive skin permeability models The book will be of interest to all researchers in academia and industry working in pharmaceutical discovery and development as well as readers from the field of occupational exposure and risk assessment especially those whose work involves agrochemicals bulk chemicals and cosmetics

**Summary of Investigations** Communicable Disease Center (U.S.) Technology Branch,1961    In Vitro Percutaneous Absorption; Principles, Fundamentals, and Applications RL. Bronaugh,1991    **Toxicological Profile for Pyrethrins and Pyrethroids** ,2003

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