

Hans Schaefer

Thomas E. Redelmeier

# Skin Barrier

Principles of  
Percutaneous Absorption

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# Skin Barrier Principles Of Percutaneous Absorption

**Jim E. Riviere, Nancy A. Monteiro-  
Riviere**



## **Skin Barrier Principles Of 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.

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 Dermal Absorption Models in Toxicology and Pharmacology Jim E. Riviere, Nancy A. Monteiro-Riviere, 2005-08-24 Many experimental methods and mathematical modeling approaches rooted in disciplines outside of toxicology can be effectively applied to estimating dermal absorption. Dermal Absorption Models in Toxicology and Pharmacology explores current approaches and techniques that can be used to quantify dermal absorption with endpoints useful in both toxicology and pharmacology. The book begins with a review of basic principles and the in vitro and in vivo experimental approaches available for assessing dermal absorption of drugs and chemicals. This is followed by coverage of mathematical or in silico models for quantitating percutaneous absorption and the applications of these techniques to the risk assessment process. The remainder of the book explores scenarios where the unique properties of the chemicals being studied or the matrix in which they are exposed must be considered and then wraps up with a comparative analysis of chemical permeability in human and animal skin. Many of the books covering this subject are just too comprehensive and serve primarily as reference works. This book takes a different approach. Jim Riviere's editorial guidance ensures that the information is readable, accessible, authoritative, and concise, making it the perfect resource for familiarizing new researchers and students to the field and updating established scientists. Pharmaceutical Preformulation and Formulation Mark Gibson, 2016-04-19 Pharmaceutical Preformulation and Formulation A Practical Guide from Candidate

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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     **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

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Furton,2014-10-14 During the last decade a significant number of scientific studies have supported the use of human scent as a biometric tool and indicator of the presence or absence of an individual at a crime scene These findings even extend to conducting scent identification line ups with suspects Human Scent Evidence focuses on some of these recent advances

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