Record Nr.	UNINA9910144096203321
Titolo	Principles and practice of skin toxicology [[electronic resource] /] / editors, Robert P. Chilcott and Shirley Price
Pubbl/distr/stampa	Chichester, West Sussex, England ; ; Hoboken, NJ, : John Wiley & Sons, c2008
ISBN	1-281-84110-2 9786611841102 0-470-77309-X 0-470-77308-1
Descrizione fisica	1 online resource (402 p.)
Altri autori (Persone)	ChilcottRobert P PriceShirley, Dr.
Disciplina	615.778 616.5
Soggetti	Dermatotoxicology Skin - Diseases Electronic books.
I de avec all'acceletette endere a	
Lingua di pubblicazione	Inglese
Formato	Inglese Materiale a stampa
Lingua di pubblicazione Formato Livello bibliografico	Inglese Materiale a stampa Monografia
Lingua di pubblicazione Formato Livello bibliografico Note generali	Inglese Materiale a stampa Monografia Description based upon print version of record.
Lingua di pubblicazione Formato Livello bibliografico Note generali Nota di bibliografia	Inglese Materiale a stampa Monografia Description based upon print version of record. Includes bibliographical references and index.

1.

	PART II Skin Absorption; 4 Skin as a route of entry; 4.1 Salient anatomical features of the stratum corneum - the 'brick and mortar model'; 4.2 Species and regional variation in skin permeability4.4 Intra- and inter-individual variation in percutaneous absorption; 4.5 Effect of age on skin barrier function; 4.6 Role of skin appendages; 4.7 The in vitro skin sandwich model; 4.8 Penetration of particles through appendages; Summary; References; 5 Physicochemical Factors Affecting Skin Absorption; 5.1 Introduction; 5.2 Physicochemical properties; 5.3 Exposure considerations; Summary; References; 6 Principles of Diffusion and Thermodynamics; 6.1 Introduction and scope; 6.2 Some definitions pertaining to skin absorption kinetics 6.3 Basic concepts of diffusion6.4 Fick's Laws of diffusion; 6.5 Thermodynamic activity; 6.6 Skin absorption of a substance from two different vehicles; 6.7 Partitioning; 6.8 Diffusivity; 6.9 Skin absorption data and risk assessments; Summary; References; 7 In vivo measurements of skin absorption; 7.1 Introduction and scope; 7.2 Why conduct in vivo studies?; 7.3 Ethics and legislation; 7.4 Standard methodology: OECD Guideline 427; 7.5 Alternative in vivo methods; Summary; References; 8 In vitro percutaneous absorption measurements; 8.1 Introduction and scope; 8.2 Regulatory guidelines 8.3 Why assess percutaneous absorption in vitro?8.4 Basic principle of in vitro percutaneous absorption measurements; 8.7 Integrity measurements; 8.8 Choice of receptor fluid and sampling considerations; 8.9 Test material considerations; 8.7 Integrity measurements; 8.1 Examples of results from in vitro skin absorption studies; 8.12 What is considered to be absorbed?; 8.13 Micro-autoradiography; Summary; References; PART III Toxicological Assessment; 9 Skin immunology and sensitisation; 9.1 Introduction 9.2 Definitions
Sommario/riassunto	Written by authorities in the field, this book provides a "bottom up" approach to studying skin toxicology. Principles and Practice of Skin Toxicology clearly outlines basic concepts, cites historical and modern references and contains a dictionary for easy reference. The inclusion of global legislation and regulatory aspects on the topic makes this a comprehensive review for every practitioner, clinical researcher in industry and academia, and MSc and PhD student of toxicology. Different sections cover skin structure and function, principles and measurement of skin absor