

1. Record Nr.	UNINA9910677158003321
Titolo	Biopharmaceutics : from fundamentals to industrial practice // edited by Hannah Batchelor
Pubbl/distr/stampa	Chichester, West Sussex, England : , : John Wiley & Sons, , [2022] ©2022
ISBN	1-119-67837-4 1-119-67836-6 1-119-67827-7 9781119678274 9781119678373 9781119678281
Edizione	[First edition.]
Descrizione fisica	1 online resource (319 pages)
Collana	Advances in Pharmaceutical Technology
Disciplina	615.7
Soggetti	Biopharmaceutics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	An introduction to biopharmaceutics / Hannah Batchelor -- Basic pharmacokinetics / Hamid A. Merchant -- Introduction to biopharmaceutics measures / Hannah Batchelor and Pavel Gershkovich -- Solubility / Hannah Batchelor -- Permeability / Chris Roe and Vanessa Zann -- Dissolution / Hannah Batchelor and James Butler -- Biopharmaceutics to inform candidate drug selection and optimisation / Linette Ruston -- Biopharmaceutics tools for rational formulation design / Panagiota Zampipi, Mark McAllister, James Butler, and Nikoletta Fotaki -- Biopharmaceutic classification system / Hannah Batchelor and Talia Flanagan -- Regulatory biopharmaceutics / Shanoo Budhdeo, Paul A. Dickinson, and Talia Flanagan -- Impact of anatomy and physiology / Francesca K. H. Gavins, Christine M. Madla, Sarah J. Trenfield, Laura E. McCoubrey, Abdul W. Basit, and Mark McAllister -- Integrating biopharmaceutics to predict oral absorption using PBPK modelling / Konstantinos Stamatopoulos -- Special populations / Christine M. Madla, Francesca K. H. Gavins, Sarah J. Trenfield, and Abdul W. Basit -- Inhalation biopharmaceutics / Precious Akhuenokhan, Magda

Swedrowska and Ben Forbes -- Biopharmaceutics of injectable formulations / Wang Wang Lee and Claire M. Patterson -- Biopharmaceutics of topical and transdermal formulations / Hannah Batchelor -- Impact of the microbiome on oral biopharmaceutics / Laura E. McCoubrey, Hannah Batchelor, Abdul W. Basit, Simon Gaisford, and Mine Orlu.

Sommario/riassunto

"This book arose as a result of this mission where the members of the focus group recognised the need to provide training for those wanting to better understand biopharmaceutics and serves as a handbook to introduce the tools used within biopharmaceutics as applied to drug development. The first six chapters cover the basics of biopharmaceutics and provide the context that underpins the later chapters. Chapters 7 and 8 specifically deal with how biopharmaceutics is integrated into product development within the pharmaceutical industry. Chapters 9 and 10 provide information on the regulatory aspects of biopharmaceutics. Chapter 11 highlights the impact of physiology and anatomy and how this can affect the rate and extent of drug absorption. Physiologically based modelling is a valuable asset in the biopharmaceutics toolkit, and this is introduced in Chapter 12. Chapter 13 provides information on a more advanced topic, the application of biopharmaceutics to special populations. Although oral administration remains the mainstay of drug therapy, it is not the exclusive route of administration, Chapters 14-16 cover alternative routes of administration. A newly emerging topic that considers the impact of the microbiome on the rate and extent of drug absorption is included as the final chapter in this book"--
