Record Nr. UNINA9910821642403321 Early drug development [[electronic resource]]: strategies and routes **Titolo** to first-in-human trials / / edited by Mitchell N. Cayen Pubbl/distr/stampa Hoboken, N.J., : Wiley, c2010 **ISBN** 1-118-03520-8 1-283-91645-2 0-470-61319-X 0-470-61317-3 Descrizione fisica 1 online resource (658 p.) Altri autori (Persone) CayenM. N Disciplina 615/.19 Soggetti Drug development Clinical trials Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references. EARLY DRUG DEVELOPMENT; CONTENTS; Contributors; Foreword; Nota di contenuto Preface; PART I INTRODUCTION; 1 Drug Discovery and Early Drug Development; References; PART II LEAD OPTIMIZATION STRATEGIES; 2 ADME Strategies in Lead Optimization; 3 Prediction of Pharmacokinetics and Drug Safety in Humans; 4 Bioanalytical Strategies; PART III BRIDGING FROM DISCOVERY TO DEVELOPMENT: 5 Chemistry. Manufacturing, and Controls: The Drug Substance and Formulated Drug Product; 6 Nonclinical Safety Pharmacology Studies Recommended for Support of First-in-Human Clinical Trials; PART IV PRE-IND DRUG DEVELOPMENT 7 Toxicology Program to Support Initiation of a Clinical Phase I Program for a New Medicine8 Toxicokinetics in Support of Drug Development; 9 Good Laboratory Practice; PART V PLANNING THE FIRST-IN-HUMAN STUDY AND REGULATORY SUBMISSION; 10 Estimation of Human Starting Dose for Phase I Clinical Programs; 11 Exploratory INDs/CTAs; 12 Unique Considerations for Biopharmaceutics: 13 Project Management and International Regulatory Requirements and Strategies for First-in-Human Trials; 14 First-in-Human Regulatory Submissions;

Appendix 1: Abbreviations and Acronyms

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The focus of early drug development has been the submission of an Investigational New Drug application to regulatory agencies. Early Drug Development: Strategies and Routes to First-in-Human Trials guides drug development organizations in preparing and submitting an Investigational New Drug (IND) application. By explaining the nuts and bolts of preclinical development activities and their interplay in effectively identifying successful clinical candidates, the book helps pharmaceutical scientists determine what types of discovery and preclinical research studies are needed in order to s