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Nota di contenuto	COVER; TABLE OF CONTENTS; TITLE PAGE; LIST OF CONTRIBUTORS; PREFACE; SECTION 1: INTRODUCTION TO PHARMACOLOGY; 1 ESSENTIAL LEXICON OF PHARMACOLOGY; THE SOCIAL IMPACT OF PHARMACOLOGY; ESSENTIAL LEXICON; TAKE-HOME MESSAGE; 2 A SHORT HISTORY OF PHARMACOLOGY; BIRTH AND HISTORICAL DEVELOPMENTS OF PHARMACOLOGY; MODERN PHARMACOLOGY; THE BIOTECHNOLOGY ERA AND THE PHARMACOLOGY IN THE THIRD MILLENNIUM; TAKE-HOME MESSAGE; FURTHER READING; SECTION 2: GETTING THE DRUG TO ITS SITE OF ACTION; 3 CELLULAR BASIS OF PHARMACOKINETICS; A QUICK JOURNEY WITH THE DRUG IN THE BODY; CROSSING CELL MEMBRANES DRUG DIFFUSION TO ORGANS AND TISSUES TAKE-HOME MESSAGE; FURTHER READING; 4 DRUG ABSORPTION AND ADMINISTRATION ROUTES; GENERAL RULES ABOUT DRUG ABSORPTION RATE; ENTERAL ROUTES OF ADMINISTRATION; SYSTEMIC PARENTERAL ROUTES OF ADMINISTRATION; OTHER ROUTES OF DRUG ADMINISTRATION; ABSORPTION KINETICS; TAKE-HOME MESSAGE; FURTHER READING; 5 DRUG DISTRIBUTION AND ELIMINATION; DISTRIBUTION; ELIMINATION; RENAL EXCRETION OF DRUGS; HEPATIC EXCRETION AND

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THE PLASMA MEMBRANE: CHANNELS, PUMPS, AND TRANSPORTERS

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#### Sommario/riassunto

With a focus on functional relationships between drugs and their targets, this book covers basic and general pharmacology, from a cellular and molecular perspective, with particular attention to the mechanisms of drug action - the fundamental basis for proper clinical use- without neglecting clinical application, toxicology and pharmacokinetics. Covers cell and molecular pharmacology, bringing together current research on regulation of drug targets, at a level appropriate for advanced undergrad and graduate students. Discusses the relevance of pharmacokinetics and drug development

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