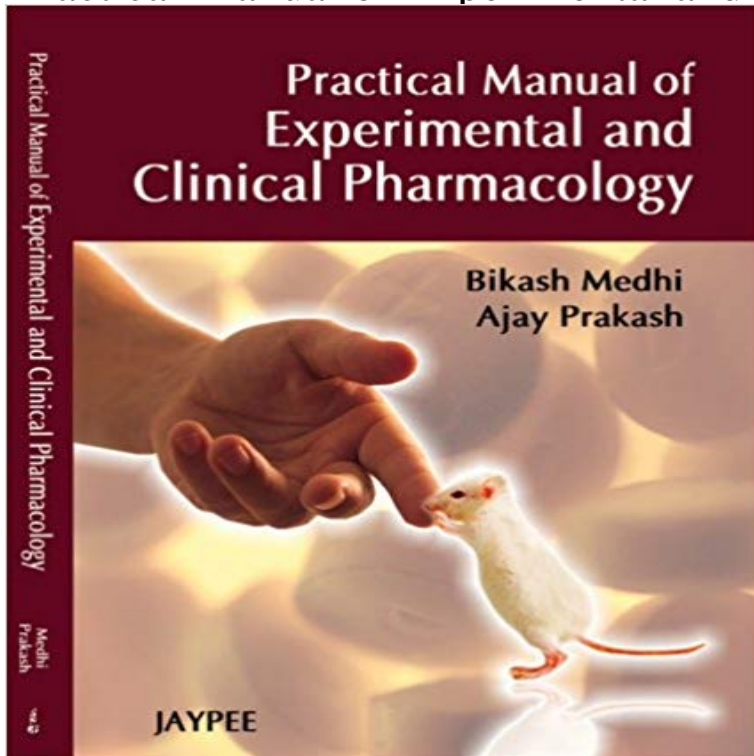


# Practical Manual of Experimental and Clinical Pharmacology



Brief History on pioneers of pharmacology. Drug development and experimental animals: Covers complete drug developmental process from lead compound to clinical trial. Details on experimental animals including zebra, fish, pig, chicken, etc. Drug dose calculation for experimental animals. blood collection from the experimental animals, Ethical consideration in animal use. Illustrated with the help of figures and tables. Bioassay in detail with several examples, added points like human and cytokine bioassay. Practical aspect of cell culture. Preclinical to clinical drug dose calculation. Protocol and thesis writing for postgraduate students. Biomedical waste disposal. In vitro and In vivo animal experimentals. Includes guideline based statement. Experiments on CVS, CNS, respiratory and kidney, Pharmacokinetics experiments. TABLE OF CONTENTS: PART 1: GENERAL CONSIDERATIONS IN EXPERIMENTAL PHARMACOLOGY; 1. Introduction to Experimental Pharmacology; 2. Bioassay; 3. Commonly Used Instruments in Pharmacology Laboratory; 4. Sophisticated Instruments and Techniques Used in Pharmacology Laboratory; 5. Pyrogen Test (In Vivo and In Vitro Methods); 6. Practical Aspects of Cell Culture; 7. Preclinical to Clinical Drug Dose Calculation; 8. Protocol and Thesis Writing for Postgraduate Students; 9. Toxicology Study; 10. Biomedical Waste Disposal; 11. Biostatistics in Pharmacology; PART 2: EXPERIMENTAL (IN VITRO STUDIES: ISOLATED TISSUE PREPARATION); 12. General Considerations and Collection of the Tissue/Muscle; 13. Identification and Collection of Tissue/Muscle; 14. Principle of Muscle Contraction; 15. Fast Contracting Smooth Muscle Preparation; 16. Slow Contracting Muscle; 17. Cardiac Muscle Preparation; PART 3: EXPERIMENTAL (IN VIVO STUDIES);

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