About the Book
Pharmacology is a rapidly progressing area of biomedical research, with new developments surfacing at regular intervals, constantly revolutionizing drug therapy for disease states. The interaction of this discipline with other biomedical sciences has opened up new vistas and opportunities in drug design and development. Basic and clinical concepts in the mechanism and use of drugs are carefully integrated into hypotheses, which are aimed at the maintenance of a critical balance between health and disease. Current Trends in Pharmacology is a comprehensive collection of topics highly significant in the current health scenario. The book comprises a combination of articles in clinical and experimental pharmacology and toxicology from the viewpoint of both basic and clinical scientists. It also details recent developments in the basic aspects of drug action in some very relevant disease states like hypertension, atherosclerosis, arrhythmia, stroke, tuberculosis, hospital acquired pneumonia, and cancer. It also highlights the applied issues relating to rational use of drugs. The contributing authors are leading experts in their respective fields and have presented the topics in a lucid and comprehensive manner.

Salient Features
- Compilation of 34 reviews and research papers in the areas of clinical and experimental pharmacology and toxicology.
- A variety of medical conditions have been taken into consideration including cardiac, stroke, CNS, tuberculosis, pneumonia and so on.
- A special emphasis has been laid on the herbal drugs.

Table of Contents
- Good Clinical Practices
- Role of Ethics Committee in Clinical Research
- Bioavailability and Bioequivalence Studies in Drug Development
- Overview of Adverse Drug Reactions and their Monitoring
- Idiosyncratic Drug Reactions: Revisited
- Promoting Rational Use of Drugs through Drugs and Therapeutics Committees
- Drugs and Therapeutics Committees: From a Pharmacist’s Perspective
- Evaluation of Drug Safety
- Good Laboratory Practices: An Overview
- Vitamins and its Genomic Stability in Humans: Redefine the RDA
- Involvement of Renin-angiotensin System in the Pathogenesis of Cardiovascular Disease
- Pharmacological Basis of the Action of Antiarrhythmic Drugs
- Experimental Models of Atherosclerosis for the Development of Therapeutic Interventions
- Characteristics and Mechanisms of Cardioprotection due to Ischemic Preconditioning
- Pharmacological Treatment of Resistance Vessel Remodeling in Hypertension
- Possible Implication of Rho-kinase in Vascular Endothelial Dysfunction
- Drug Usage during Percutaneous Coronary Interventions in Patients with Acute Coronary Syndrome and Ventricular Dysfunction
- Abdominal Obesity, Low-degree Inflammation and Cardiovascular Diseases in Developing Countries
- Mechanism of Sensory Transduction in Cardiopulmonary Receptors
- Interaction between Aspirin and Ace Inhibitors
- Targeting Molecular Pathways in Stroke
- Neutrophil Nitric Oxide Synthase: Functional, Biochemical and Molecular Perspectives
- Nitric Oxide and the Central Nervous System: Perspectives and Trends
- Application of Bioinformatics in Drug Designing in Antimalarial Drug Targets
- Rational Therapy of Tuberculosis Using Fixed-Dose Combination Products: Bioavailability and Stability Issues
- Rational Antibiotic Therapy in Hospital-acquired Pneumonia
About the Author

Muhammad Iqbal: Muhammad Iqbal, Department of Botany Faculty of Science, Jamia Hamdard University

Altaf Ahmad: ALTAF AHMAD – Assistant Professor at Hamdard University, New Delhi, India. Dr. Ahmad was awarded PhD (Botany) by Hamdard University, New Delhi, India. He worked out the biochemical basis of the role of sulphur nutrition in enhancing the content and quality of oil in the seeds of rapeseed-mustard and also identified two forms of nitrate reductase in leaves of mustard. Dr. Ahmad has been honoured with the INSA Medal for Young Scientist (2003), Prof. LSS Kumar Memorial Award (2003) of INSA, AAAS (Jr) Award (2003) and Young Scientist Award (2004) of CST, Uttar Pradesh, India. He has to his credit significant research publications and several edited volumes published by reputed publishers.