

Pharmacognosy and Phytochemistry: A Comprehensive Approach

S.S. Khadabadi, S.L. Deore and B.A. Baviskar



Salient Features:

- Plant taxonomy-cultivation of medicinal plants- GACP-Quality control methods for crude drugs
- Illuminate the importance of herbs/plants for therapeutic purpose
- Detailed pharmacognosy of the Crude drugs of Medicinal importance
- Different biosynthetic pathways for secondary metabolites (Alkaloids, Glycosides, Terpenoids, Flavonoids)
- New techniques in plant tissue cultures, Nutraceuticals
- GMP for herbal drug formulations, pharmacological screening methods for herbal drugs
- New drug discovery methods, Current Drug Delivery methods for natural products, Ethnopharmacognosy

Contents: Part - I: PHARMACOGNOSY 1. Pharmacognosy: Scope and History 2. Plant Morphology and Anatomy 3. Basics in Microscopy 4. Cell: Organelles and Inclusions 5. Plant Physiology and Biochemistry: Biogenesis of Natural Products 6. Plant Taxonomy 7. Chemotaxonomy 8. Families 9. Cultivation 10. Good Agricultural and Collection Practices [GACP] 11. Quality Control of Crude Drugs 12. WHO Guidelines for Safety and Toxicity of Herbal Drugs **Part - II PHYTOCHEMISTRY** 13. Phytochemistry 14. Pharmacognostic Account of Crude Drugs 15. Extraction and Isolation of Phytoconstituents **PART-III PHYTOPHARMACOLOGY** 16. Screening Methods for Plant Drugs 17. Phytopharmacology **PART - IV: HERBAL DRUG TECHNOLOGY** 18. Processing of Herbal Raw Materials and Dosage Forms 19. Current Good Manufacturing Practices for Herbal Medicines 20. Traditional Drugs and Derived Formulation 21. Herbal Cosmetics **PART - V** 22. Pharmaceutical Biotechnology **PART - VI: Selected Topics in Pharmacognosy** 23. Recent Trends in Pharmacognosy 24. Photosensitizing Plants, Plant Allergens, Fungal Toxins and Poisonous Plants 25. Marine Drugs 26. Plant Sweeteners and Bitters 27. Nutraceutical 28. Medicinal and Aromatic Plants: National Economy, Industry and Institutes involved in Research 29. Natural Product Drug Delivery 30. Herbal Medicines and Intellectual Property Rights

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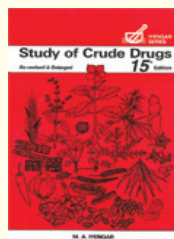
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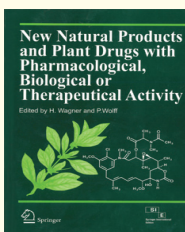
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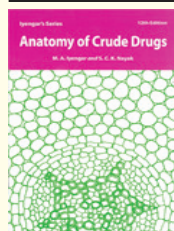
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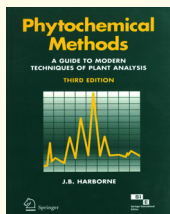
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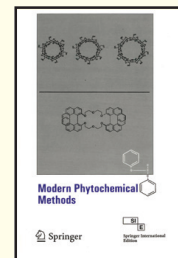
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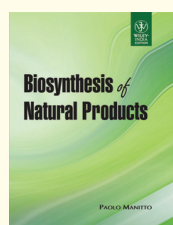
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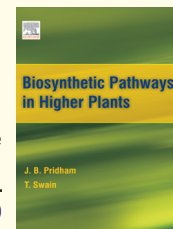
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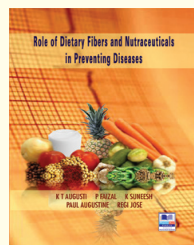
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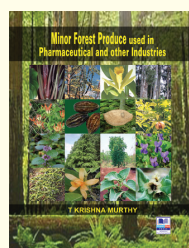
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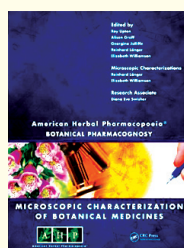
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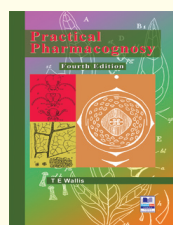
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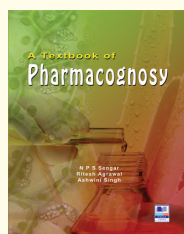
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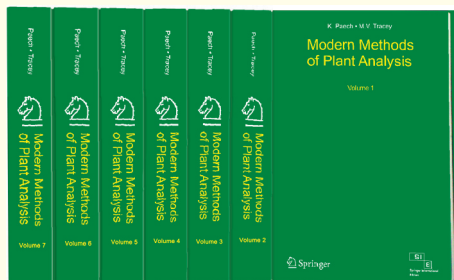
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applying to all fields of analysis from petroleum to heavy metal alloys. When they appear in the methods section of papers on specialized biochemical subjects they may be obscured by a title and discussion giving no hint of the presence of a valuable method or of its general applicability. As a result new methods very often do not immediately reach those manifold groups of research workers to whom they would be of the greatest use. These are the considerations that led to the plan of this handbook. We are convinced that there is a real need for a collection of reliable up-to-date methods for plant analysis in large areas of applied biology ranging from agricultural and horticultural experiment stations to pharmaceutical and technical institutions concerned with raw materials of plant origin. A part from the study of plant metabolism in which analytical methods are essential many branches of pure botany, originally not concerned with the chemical composition of plants, have developed in such a way as to depend on accurate knowledge of the nature and amounts of plant constituents. This applies among others to genetics, the physiology of growth, and taxonomy. The scattered publication of analytical methods and lack of experience in judging chemical methods makes it hazardous for many of the newcomers in the field of plant analysis to find or select the best available methods for their purposes. The collection offered in this handbook may help to pave the way for tackling problems in those fields of pure botany where chemical components are useful as indicators of the varied activities of the living plant cell. It is not in the scope of this work to produce a handbook of plant metabolism or a biochemical system of plant substances. Had it been, then the structure of the book and the arrangement of the contents would have been more logical than that which has been imposed by the purely analytical considerations that prevail in the present work, for example, mineral substances could not have been separated from many other sections. The ambition of the editors, however, was to produce a laboratory manual of the highest standard possible. The authors of the various chapters undertake the task of discussing the detailed techniques of analysis in such a way that the user of these volumes will be able to make the greatest use of the authors' experience and knowledge of experimental biochemistry. The purpose of the work is furthered by the fact that the authors have avoided discussing problems of the biogenesis and metabolism of the substances with which they are concerned, tempting and fruitful though these physiological considerations may have appeared to them. Volume I concerned with analytical methods of general application. Volume VI is concerned with adding to the range of groups of compounds dealt with in Volumes II-IV. Volume V has been planned to supplement and bring up to date the original Vol. I. The work as originally planned did not include a consideration of methods for the detection and assay of enzymes. The scope of the work has now been enlarged and in Volume VI will also be found a treatment of general methods of enzyme chemistry while in Vol. VII individual groups of enzymes are covered.

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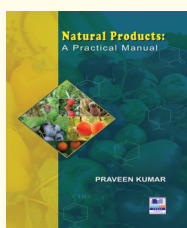
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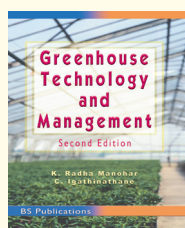
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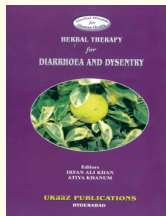
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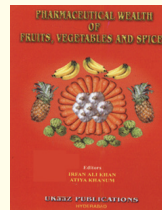
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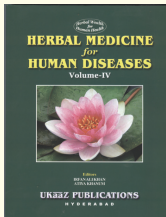
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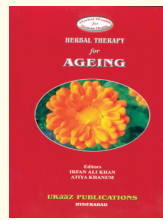
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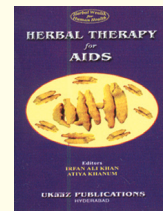
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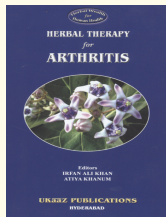
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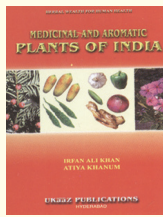
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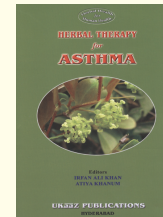
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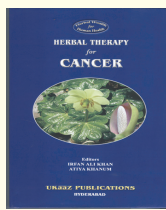
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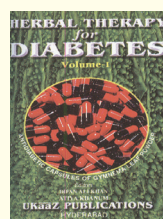
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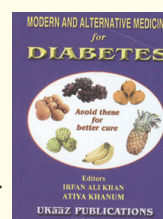
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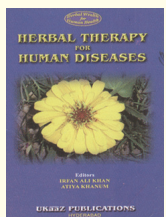
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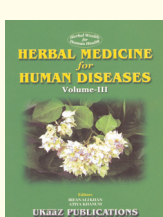
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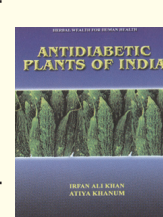
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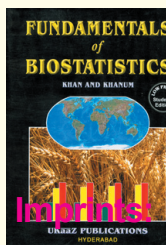
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