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| Altri autori (Persone) | AhmadIqbal, Dr. AqilFarrukh OwaisMohammad |
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| Nota di contenuto | Modern Phytomedicine; Contents; Preface; List of Contributors; 1 Bioactive Phytochemicals: New Approaches in the Phytosciences; 1.1 Introduction; 1.2 Development of Fast Reliable Methods of Extraction and High-Throughput Screening (HTS) of Crude Plant Extracts: New Challenges; 1.3 Antimicrobial Bioactive Phytochemicals from Extraction to Identification: Process Standardization; 1.4 Problems Associated with the Efficacy, Stability and Quality Control of Herbal Drugs Preparations 1.5 Novel Bioactive Phytochemicals Against Multidrug-Resistant Bacteria/Fungi: The Management of Infectious and Chronic Diseases 1.6 Mode of Action of Bioactive Phytochemicals and their Interactions with Macromolecules and Toxicity; 1.7 Bioactive Phytochemicals and Future Perspectives; References; 2 Quality Control, Screening, Toxicity, and Regulation of Herbal Drugs; 2.1 Introduction; 2.2 Preparation of Herbal Drugs; 2.3 Quality Control of Herbal Drugs; 2.3.1 Parameters for Quality Control of Herbal Drugs; 2.3.1.1 Microscopic Evaluation; 2.3.1.2 Determination of Foreign Matter |

2.3.1.3 Determination of Ash; 2.3.1.4 Determination of Heavy Metals; 2.3.1.5 Determination of Microbial Contaminants and Aflatoxins; 2.3.1.6 Determination of Pesticide Residues; 2.3.1.7 Determination of Radioactive Contamination; 2.3.1.8 Analytical Methods; 2.3.1.9 Validation; 2.4 Herbal Supplements; 2.5 Adulteration of Herbal Drugs; 2.6 Contamination of Herbal Drugs and Herb-Drug Interactions; 2.7 Toxicity of Herbal Drugs; 2.8 Screening of Herbal Drugs; 2.9 Labeling of Herbal Products; 2.10 Policies and Regulations; 2.11 Trends and Developments; 2.12 Conclusions; References

3 Herbal Medicines: Prospects and Constraints

3.1 Introduction; 3.1.1 Traditional Systems of Medicine; 3.1.1.1 Asian Medicinal System; 3.1.1.2 European Herbalism; 3.1.1.3 Neo-Western Herbalism; 3.1.2 Modern Phytomedicine; 3.2 Prospects for Herbal Medicine; 3.2.1 Indian System-Based Herbal Medicine; 3.2.2 Progress in the Pharmacokinetics and Bioavailability of Herbal Medicine; 3.3 Constraints in Herbal Medicine; 3.3.1 Reproducibility of Biological Activity of Herbal Extracts; 3.3.2 Toxicity and Adverse Effects; 3.3.3 Adulteration and Contamination; 3.3.4 Herb-Drug Interactions; 3.3.5 Standardization; 3.3.6 Regulatory Challenges of Asian Herbal Medicine; 3.4 Good Manufacturing Practice (GMP) for Herbal Medicine; 3.5 Improving the Quality, Safety and Efficacy of Herbal Medicine; 3.5.1 Quality Management; 3.5.2 Encouraging Mediculture; 3.5.3 Correct Identification of Plant Material; 3.5.4 Minimizing Contamination in Herbal Medicine; 3.6 Conclusions; Acknowledgments; References;

4 Bioactive Phytochemicals and Products Traditionally Used in Japan; 4.1 Introduction; 4.2 Garlic; 4.2.1 Introduction; 4.2.2 Biological Effect of Garlic; 4.2.2.1 Antibacterial Effects; 4.2.2.2 Anticoagulation Effects

Sommario/riassunto

This timely and original handbook paves the way to success in plant-based drug development, systematically addressing the issues facing a pharmaceutical scientist who wants to turn a plant compound into a safe and effective drug. Plant pharmacologists from around the world demonstrate the potentials and pitfalls involved, with many of the studies and experiments reported here published for the first time. The result is a valuable source of information unavailable elsewhere.
