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Nota di contenuto	Chapter 1- Medicinal Plants and Phytomedicines -- Chapter 2- Plant Product With Antifungal Activity: from Field to Biotechnology Strategies -- Chapter 3- Liquid Chromatography for Plant Metabolite Profiling in the Field of Drug Discovery -- Chapter 4- Functional Foods as Source of Bioactive Principles: Some Marked Examples -- Chapter 5- The Role of Flavonoids as Modulators of Inflammation and on Cell Signaling Pathways -- Chapter 6- Current Approaches to Isolation and Structural Elucidation of Active Compounds from Natural Products -- Chapter 7- Syntheses of Asymmetrically Substituted Pyrans of Natural Origin -- Chapter 8- Natural Products as Sources of Anticancer Agents: Current Approaches and Perspectives -- Chapter 9- Virtual Screening for the Discovery of Active Principles from Natural Products -- Chapter 10- Current Regulatory Environment of Herbal Medicinal Products in the European Union -- Chapter 11- Development and Use of Polymeric Nanoparticles for the Encapsulation and Administration of Plant Extracts -- Chapter 12- NMR Identification of Biologically Active Natural Products: Strategies and Challenges -- Chapter 13- Herbal Medicine and Public Health Care: Current and Future Challenges.

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## Sommario/riassunto

This book addresses the highly relevant and complex subject of research on drugs from natural products, discussing the current hot topics in the field. It also provides a detailed overview of the strategies used to research and develop these drugs. Respected experts explore issues involved in the production chain and when looking for new medicinal agents, including aspects such as therapeutic potential, functional foods, ethnopharmacology, metabolomics, virtual screening and regulatory scenarios. Further, the book describes strategic methods of isolation and characterization of active principles, biological assays, biotechnology of plants, synthesis, clinical trials and the use of tools to identify active principles.

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