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Nota di contenuto	Chapter 1. Phytochemicals in Cancer Chemoprevention: A Brief Perspective -- Chapter 2. Phytochemicals in Modulating Signalling Cascades in Cancer Cells -- Chapter 3. Diverse cancer therapeutic interactions: complexities in cancer management -- Chapter 4. Natural Products as Chemosensitizers for Adjunct Therapy in Cancer Management -- Chapter 5. Dietary phytochemicals as epigenetic modulators in cancer prevention: Emerging research trends, gaps, and future perspectives -- Chapter 6. Modulation of Cancer Cell Metabolism and Microenvironment by Phytochemicals -- Chapter 7. Role of Nutrigenetics and Nutrigenomics in Cancer Chemoprevention -- Chapter 8. Nano-delivery carriers for Enhanced Bioavailability of Antitumor Phytochemicals -- Chapter 9. Biphasic Effects of

Phytochemicals and their Relevance to Cancer Therapeutics -- Chapter 10. Potential Pharmacotherapeutic Phytochemicals from Zingiberaceae for Cancer Prevention -- Chapter 11. 3 Dimensional Cell Culture Techniques in Cancer Research -- Chapter 12. Animal Models Systems of Cancer for Preclinical Trials -- Chapter 13. Cancer Chemoprevention by Natural Plant Products and Their Derivatives: Clinical Trials.

Sommario/riassunto

The book presents a comprehensive and up-to-date overview of phytochemicals as efficient cancer therapeutics. Over the last few decades there has been a paradigm shift from conventional cancer therapeutic approaches to alternative and complementary medicinal approaches especially using phytoconstituents from natural products. As such, the book provides an in-depth understanding of phytochemicals targeting diverse signaling pathways involved in cancer along with the evaluation of the cancer modulatory effects of phytochemicals. It also highlights the potential modulatory effect of single nucleotide polymorphisms (SNPs) on the cancer-associated cellular pathways and their interactions with the phytochemicals. Further, it analyzes the drug delivery methods, bioavailability of active components of botanicals, and toxicity of phytochemicals. Lastly, the book elucidates the 3D cell culture and animal models systems to analyze the beneficial effects of phytochemicals in cancer.
