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Nota di contenuto	Chapter 1. Omics- a holistic approach in cancer treatment -- Chapter 2. Plant miRNAs and phytomolecules as anticancer therapeutics -- Chapter 3. Potential of herbal medicines in colorectal carcinoma and their mechanism of action -- Chapter 4. Elucidation of mechanisms of anticancer plant compounds against the tumor cells -- Chapter 5. Computational approach towards exploring interaction of target protein-phytocompounds in drug development for breast cancer -- Chapter 6. Anticancer Potential of Andrographolide, a diterpenoid lactone from Andrographis paniculata: A nature’s treasure for chemoprevention and therapeutics -- Chapter 7. Anticancer activity of herbal medicine: Mechanism of action -- Chapter 8. Metabolomic study of chemo-preventive phytochemicals and their therapeutic prospects -- Chapter 9. CADD studies applied to secondary metabolites in the anticancer drug research -- Chapter 10. Anticancerous plant compounds affecting the power house of cancerous cells: A possible herbal mitocan.-Chapter 11. Phytoestrogens as a natural source for the possible colon cancer treatment -- Chapter 12. Bioinformatics

	approaches for genomics and post genomics applications of anticancer plants -- Chapter 13. Fruits of Rosaceae family as a source of anticancer compounds and molecular innovations -- Chapter 14. Mechanism of action of anticancer herbal medicines.
Sommario/riassunto	This book summarizes the application of plant derived anticancer compounds as chemopreventives to treat several cancer types, focusing on the molecular mechanisms of action of phytocompounds and providing an overview of the basic processes at the cellular and molecular level that are involved in the progression of the cancer and can be employed in targeted preventive therapies. In addition, it highlights the development of novel anticancer drugs from plant sources using bioinformatics approaches. The compiled chapter data aids readers understanding of issues related to bioavailability, toxic effects and mechanisms of action of phytocompounds, and helps them identify the leads and utilize them against various cancer types effectively. Furthermore, it promotes the use of bioinformatics tools in medicinal plants to expedite their use in plant breedingprograms to develop molecular markers to distinguish disease subtypes and predicting mutation, which in turn improves cancer diagnosis and prognosis, and to develop new lead compounds computationally. Thebook provides scientific verifications of plant compounds mechanisms of action against various cancers and offers useful information for students, teachers, and healthcare professionals involved in drug discovery, and clinical and therapeutic research. .