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Nota di contenuto	Current Concepts and Advances in Oncobiology -- History, Evolution, Milestones in Cancer Research and Treatment -- Cancer Statistics: Geographical and Racial Disparities -- A Comprehensive Overview of Various Cancer Types and Their Progression -- Strategies of Early Diagnosis of Cancers -- Advancement in Cancer Modeling System: Latest Developments and Trends in Cancer Research and Healthcare Interventions -- Point of Care Molecular Diagnostics in Cancer -- Genetics of Cancer: Past, Present and Future -- Mechanisms of Oncogenesis -- Recent Developments in Cancer Detection and Treatment -- Circadian Rhythms and Their Association with Cancer Development -- Advances in Cancer Pain Management -- Genetic Alterations and Microbial Dysbiosis Underlie Lymph Node Metastasis in Tongue Cancer -- Skin Cancer: An Overview -- Squamous Cell Carcinoma Predisposition Pathophysiology, Diagnosis, and Treatment -- Tumor Heterogeneity in Breast Cancer Progression -- Molecular

Pathways in Breast Cancer Chemoresistance -- Therapeutic Efficacy of Estrogen Related Receptor in Breast Carcinoma -- Diagnostic-Prognostic Biomarkers and Their Clinical Implication in Breast Cancer -- Tumour Inflammatory Microenvironment in Lung Cancer: Heterogeneity and Implications -- Brain Tumors: Types, Diagnostic Biomarkers and New Therapeutic Approaches -- Current Pathophysiology, Treatment, and Future Perspective for Prostate Cancer -- Emerging Pathophysiology and Treatment Prostate Cancer: Future Perspective -- Androgen Receptor Signaling: a Central and Evolving Theme in Prostate Cancer Treatment -- Structuring Inflamasome-Epigenome – Phenotypic Axis in Gynecological Cancers.

Sommario/riassunto

This Handbook on cancer biology comprehensively reviews the current status of the oncobiology of major cancer types, cancer detection and treatment strategies, principles and processes of cancer drug development, and nanomedicine and other emerging cancer medicine applications to cancer diagnosis and treatment. The book also provides practical and implementable nutritional guidance in cancer prevention, treatment, and quality of life for cancer survivors. It discusses pharmacogenetics strategies for predicting cancer prognosis and treatment exposure, response, and toxicity. Further, it presents bioinformatics approaches for predicting anti-cancer drugs and drug combinations based on the multi-omic data, including transcriptomics, toxicogenomics, functional genomics, and biological networks. The Handbook also examines major factors and pathways that regulate cancer stem cells development and discusses potential targeted therapy for cancer stem cells. The book explores the application of the CRISPR/Cas9-based gene-editing technique in basic cancer research, diagnosis, and treatment of cancer. This Handbook is an invaluable source for oncologists, researchers, public health specialists, epidemiologists, and policy makers.
