



Epigenetics Territory and Cancer [

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editor

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Medicine Cancer research Oncology Cell biology Biomedicine
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Monografía

This book explores epigenetic strategies, bridging fundamental cancer epigenetics, different paradigms in tumor genetics and translational understanding for both the clinic and improved lifestyles. The work provides target-based insights for treating different types of cancers and presents research on evolutionary epigenetics, introducing 'Medical Epi- Anthropology' and 'Cancer Epi-Anthropology'. Translating multi-disciplinary research into therapeutic design is at the core of this book. Readers may explore how cancer management involves unmasking the involved networks and the interactive status of different genes to achieve the appropriate methylome based therapy. Early chapters explore fundamental aspects and brain tumours, whilst later chapters investigate breast cancer and various other cancers, and the final chapter presents an evolutionary insight in cancer epigenetics, considering that the epigene is beyond DNA methylation, RNA interference and histone modification in cancer development. This book will be of interest to researchers in different medical and scientific fields, including clinical management (diagnosis, prognosis, prediction, prevention, and guidelines), genetic education, nutrition and nutrigenomics, industrial chemistry, and drug innovation. Because of the unique bridging between science and medicine this book will also be useful as an educational and translational research package

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Contenido: Preface -- Fundamental Aspects of Epigenetic in Cancer -- Biodynamic Phenotypic and Epigenetics Changes of Circulating Tumor Cells: Their Application in Cancer Prognosis and Treatment -- LINE-1 Retrotransposons and their role in cancer -- Reciprocal Interconnection of miRNome-Epigenome in Cancer Pathogenesis and Its Therapeutic Potential -- Reduced risk of cancer in schizophrenia, a bridge toward etio-pathology and therapy of both diseases -- Exploring ATM and Methylation in cancer: Emphasizing on brain tumors -- Molecular and biological aspects of Microcephalin gene: Directions in brain tumor and methylation -- Sentinel Gene within Cell Territory and Molecular platforms in Cancer: Methylation diversity of p53 Gene in Brain Tumors -- Predictive role of O6-methylguanine DNA methyltransferase status for the treatment of brain tumors --

Epigenetics and three main clinical aspects of breast cancer management -- Epigenetic of Retinoic acid receptor 2 gene in breast cancer -- Retinoic acid receptor-, from gene to clinic -- Methylation in Colorectal Cancer -- Malignant Rhabdoid Tumor: Epigenetic Mechanism of Tumorigenesis -- Epigenetics of Thyroid Cancer -- An Introduction to impact of Bio-Resonance technology in Genetics and Epigenetics -- Essence of Cancer Epigenetic: A harmonic Art for the future -- Index

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