

Download Advances In Dna Repair In Cancer Therapy

Mark Kelley. He holds 10 patents related to the use of DNA repair targets for cancer therapy and serves on the consulting and scientific boards of several companies. Thus far Dr. Kelley's research resulted in over 160 articles published in peer reviewed journals along with numerous reviews and book chapters. Advances in DNA Repair in Cancer Therapy. The DNA repair genes discussed include those involved in BRCA/Rad51-related homologous recombinational repair, DNA-PK related nonhomologous endjoining and the nucleotide excision repair gene, ERCC1. Moreover, the role of regulatory genes such as PARP, ATR, telomerase, growth factor receptors and downstream kinase signalling is examined. DNA repair alterations in cancer have the potential to direct personalized cancer therapy. Optimizing combinations of cytotoxic agents that result in maximum treatment benefit with minimum toxicity remains a high priority in cancer therapeutics. A comprehensive review of the recent developments in DNA repair research that have potential for translational applications. The book explains in detail the various biological mechanisms by which cancer cells can circumvent anticancer therapy and limits its usefulness in patients. - Advances In Dna Repair In Cancer Therapy