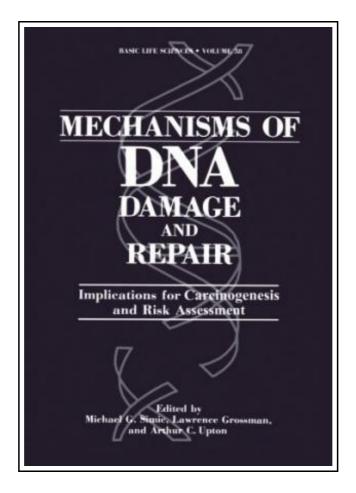
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Book Condition: New. Publisher/Verlag: Springer, Berlin | Implications for Carcinogenesis and Risk Assessment | This book is based on the papers presented at the conference on "Mecha nisms of DNA Damage and Repair: Implications for Carcinogenesis and Risk Assessment," held at the National Bureau of Standards on June 2-7, 1985, This volume deals with mechanisms of DNA damage and repair at the molecular level; consequences of unrepaired or misrepaired damage, with major emphasis on carcinogenesis; drugs which bind selectively to altered and potentially damaging DNA sequences; and potential utilization of DNA damage as an endpoint for assessing risks of UV light, ionizing radiations, chemicals, drugs, and hazardous agents in foods. Because the induction of mutations by radiation and genotoxic chemicals has been observed to follow one-hit kinetics in some instances, it is generally assumed that any level of exposure to a DNA-damaging agent may increase the risk of genetic disease or cancer in an exposed population. At the same time, however, there is evidence that although the DNA of living cells is continually damaged by natural background radiation, free radicals, and other naturally occurring processes, most of the damage is normally repaired. | to Mechanisms of DNA Damage and Repair.- History of Radiation Biology from a Personal Point of View.- DNA Damage.- Mechanisms of Damage.- Comparison of Mechansms for DNA Strand Break Formation by the Direct and Indirect Effect of Radiation.- Eletron Spin Resonance Studies of the Mechanism of Radiation Damage to DNA.- Free Radical Mechanisms of DNA Base Damage.- Peroxyl Radicals of Nucleic Acids and Their Components.- Radiation-Induced Peroxidation of DNA and Effects of Redox-Active Agents.- The Radiation Chemistry of the Purine Bases Within DNA and Related Model Compounds.- Bacteriophage DNA as a Model for Correlation of Radical Damage to DNA and Biological Effects.- Damage in Cells.- Ultrafast Chemical...

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