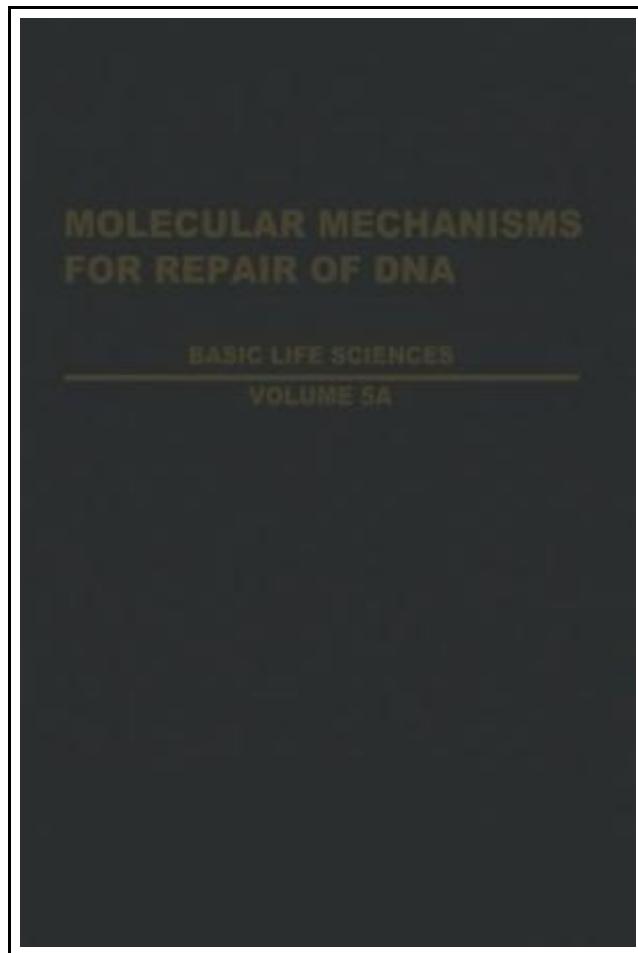


## Molecular Mechanisms for Repair of DNA



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Book Condition: New. Publisher/Verlag: Springer, Berlin | Part A | An "age" has passed in the 40 years since we first observed recovery from radiation damage in irradiated bacteria. During the early 1930s, we had been discussing the possibility of rapid changes after radiation exposure with Farring ton Daniels, Benjamin Duggar, John Curtis, and others at the University of Wisconsin. After working with living cells, we had concluded that organisms receiving massive insults must have a wide variety of repair mechanisms available for restoration of at least some of the essential properties of the cell. The problem was how to fmd and identify these recovery phenomena. At that time I was working on a problem considered to be of great importance-the existence of the so-called mitogenetic rays. Several hundred articles and a score of books had already appeared dealing with mitogenetic rays, a type of radiation that was thought to exist in the shorter ultraviolet region. Our search for mitogenetic rays necessitated the design of experiments of greatest sensitivity for the detection of ultraviolet. It was vital that conditions be kept as constant as possible during exposure. All the work was done at icewater temperature (3-5°C) during and after exposure. We knew that light was an important factor for cell recovery, so all our experiments were done in dim light, with the plated-out cells being covered with dark cloth. Our statements on the effect of visible light stimulated Kelner to search for "photoreactivation&apos; (as it was later called). | I. Repairable Damage in DNA.- 1. Repairable Damage in DNA: Overview.- 2. The Nature of the Alkylation Lesion in Mammalian Cells.- 3. "Excision" of Bases from DNA Methylated by Carcinogens in Vivo and Its Possible Significance in Mutagenesis and Carcinogenesis.- 4. Alkali-Labile Lesions in DNA from Cells Treated with Methylating Agents,...

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