



Federal Research on the Biological and Health Effects of Ionizing Radiation

By National Research Radiation

Theclassics.Us, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****. This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1981-12-01 edition.

Excerpt: .type of change is found in the induced release of virus particles from cells irradiated with ionizing radiation

(Shinagawa et al., 1977) and in the induction of enzyme systems (see Hanawalt et al., 1979, for UV induction of repair enzymes in bacteria and mammalian cells). In both of these examples, many or all of the exposed cells experience a similar change in response to radiation. A second class of change includes those alterations that differ from one cell to another. A wide variety of possible discrete changes, such as mutations, is possible. Any single cell may or may not have experienced one or another of the changes, and the probability of finding a cell with a specific change would be expected to be dose-dependent. Such changes resulting from exposures to UV-irradiation and chemicals include mutations that are the result of DNA damage or flawed...



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-- Dr. Celestino Spinka III