



# **Rapid Diagnosis in Populations at Risk from Radiation and Chemicals - Volume 73 NATO Science for Peace and Security Series - E: Human and Societal Dynamics**

*A. Cebulka-Wasilewska, A.N. Osipov, F. Darroudi*

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It is a reality that we live in a world where populations could be exposed to radiation or hazardous chemicals as a result of an accident, act of terrorism or a war. This exposure could cause serious health problems, sometimes within days or weeks, and may even lead to a latent health effect on humans, such as an increased cancer rate. Health professionals dealing with these cases therefore need methods to measure the effects of radiation and chemicals using molecular and cellular assays, and their possible short and long term consequences for potentially exposed members of a population at risk. Many biological methods are currently available to monitor both the environment and humans following exposure to physical and chemical agents, by using specific biomarkers to measure genetic damage and changes in macromolecules and body tissues. This makes it possible to perform a reliable risk assessment and to protect the public against unwanted consequences of terrorism and other threats. However, this new experimental science also needs the collaboration of other disciplines such as epidemiology, medical physics and others. It is also important to make a link with the latest breakthroughs in the genome research programs in order to elucidate cancer causes and cancer risk estimates. Aimed at health professionals and researchers specialized in this area, the book allows healthcare experts to gain knowledge of the deterministic and stochastic effects and biomarkers associated with humans' early and late health risk.

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