



## **Molecular and Cellular Analyses of Effects of Radiation and Chemicals Published in New Book**

FOR IMMEDIATE RELEASE

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**Amsterdam, The Netherlands, 1 December 2010** – 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 exposure to radiation and hazardous chemicals need methods to measure these effects and their possible short and long term consequences for potentially exposed members of a population at risk, by using molecular and cellular assays. Aimed at health professionals and researchers specialized in this area, the book [\*\*Rapid Diagnosis in Populations at Risk from Radiation and Chemicals\*\*](#), published by **IOS Press**, allows healthcare experts to gain knowledge of the deterministic and stochastic effects and biomarkers associated with humans' early and late health 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.

***Bibliographical Details:***

**Rapid Diagnosis in Populations at Risk from Radiation and Chemicals**

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**Edited by:** A. Cebulska-Wasilewska, A.N. Osipov and F. Darroudi

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***About the NATO Science for Peace and Security Series - E: Human and Societal Dynamics book series***

Volumes in the Human and Societal Dynamics Sub-Series deal with, for example, new challenges for global security, economic impact of terrorist actions, risk studies, management of science, science policy, security-related political science, and international relations in general. Also covered are management of science and technology in globally-oriented market economies, and policies for defence technology conversion in general, and displaced defence industry scientists in particular. Other areas include human resource management issues such as education, training, mobility and exchanges of personnel, as well as the redeployment of scientific and technical personnel from military to civilian facilities.

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IOS Press continues its rapid growth, embracing new technologies for the timely dissemination of information. All journals are available electronically and an e-book platform was launched in 2005.

Headquartered in Amsterdam with satellite offices in the USA, Germany, India and China, IOS Press has established several strategic co-publishing initiatives. Notable acquisitions included Delft University Press in 2005 and Millpress Science Publishers in 2008.

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