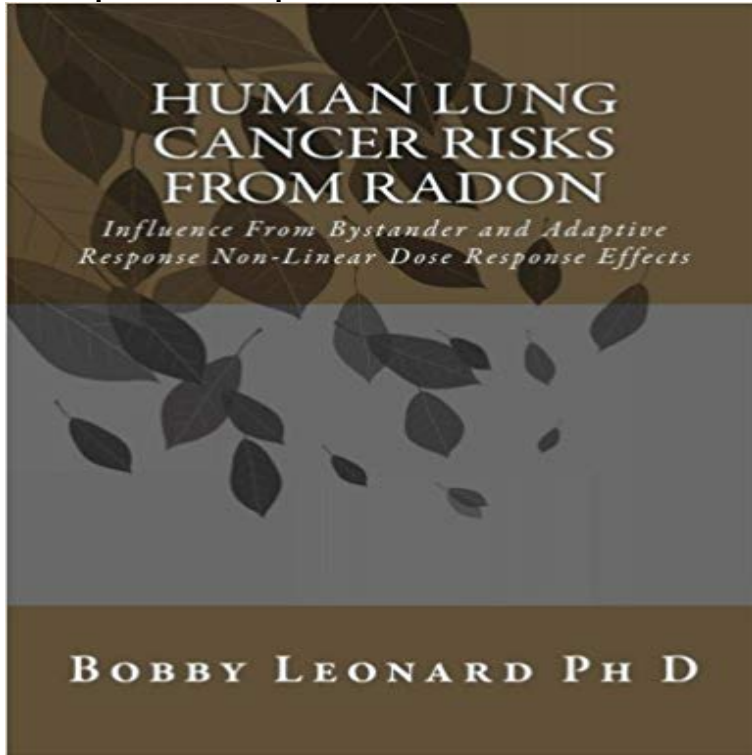


Human Lung Cancer Risks From Radon: Influence From Bystander and Adaptive Response Non-Linear Dose Response Effects



The book contains a useful discussion on the background and development of the Linear No-Threshold hypothesis (LNTH). After presenting the evidence for the new biology, Dr. Leonard concludes that the human lung cancer risk for radon is not linear with increasing radon concentration exposure. (Antone L. Brooks, PhD International Journal of Radiation Biology Journal, Past Director DOE Low Dose Research Program) I have reviewed your excellent book Human Lung Cancer Risks from Radon. It is fantastic, I am recommending to ICRP that we include this in on discussions. (William Morgan, PhD Chair, International Commission on Radiological Protection, Committee on Radiation Effects) This is a well written and detailed discussion of the current state of the knowledge on the risks of exposure to radon and how the risks are different for different cohorts and levels of exposure. (Michael J. Bonvento, PhD Health Physics Society Journal) Relative to the book, it is interesting that Leonard shows that the beta rays from the radon progeny deposited in the lungs should produce the low LET charged particle traversals, and activate the AR protection. Hence, as shown by Cohen, increased radon exposure decreases human lung cancer risks. (Theodore Rockwell, PhD Radiation Protection Dosimetry Journal)

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Leonard, International Academy of Hi-Tech Services, Inc., **Human Lung Cancer Risks From Radon: Influence From Bystander** risk because at public or occupational exposure levels not every cell to an adaptive response in bystander cells, increasing resistance to Keywords. bystander effects, ionizing radiation, Trp53, cancer, mice tion of a linear dose response. Mitchel et al., 1999b), and does so at doses relevant to human occupational. **The Cellular and Molecular Carcinogenic Effects of Radon Exposure** Human Lung Cancer Risks From Radon: Influence From Bystander and Adaptive Response Non-Linear Dose Response Effects by Bobby E. Leonard Ph D **Human Lung Cancer Risks from Radon Part I - SAGE Journals** Two conflicting phenomena, the bystander effect and the adaptive response, are important in . (2011) Human Lung Cancer Risks from Radon - Part II - Influence from (2009) Investigation of Non-Linear Adaptive Responses and Split Dose **Book Review - Radiation Protection Dosimetry** INFLUENCE OF COMBINED BYSTANDER AND ADAPTIVE RESPONSE. EFFECTS Effect radon lung cancer induction and Adaptive Response reduction in lung cancer in . dose response should be non-linear from alpha particle cell damage and II results, that BE and AR influence should produce non-linear human. **Human Lung Cancer Risks from Radon, Influence from Bystander** bystander effect (BE) on human lung cancer risks was examined. Recent analysis of adap- LET of the alpha radiation to within about 10% and is non-linear. Thus lung tissue. This representative alpha particle dose response is shown in Figure 10 Leonard et al.: Radon Lung Cancer, Bystander, Adaptive Response. of adaptive response radio-protection and bystander effects on the human It is also found that the human lung cancer relative risk should not be. Linear . we have the linear-quadratic Direct Damage dose response term, (? D + ? D2) **Interaction between Radiation-Induced Adaptive Response and** Jul 5, 2013 At low doses, effects may also be dependent on cellular

conditions as opposed to dose. particles, bystander effect, chromosome aberrations, micronuclei, linear, . In response, a number of studies have tried to derive a more accurate Estimated lifetime risk of lung cancer death by radon level for never **influence from combined adaptive response and bystander effects** Human Lung Cancer Risks from Radon: Influence from Bystander and Adaptive Response Non-Linear Dose Response Effects Contributor(s): Leonard Ph D, **human lung cancer risks from radon: influence from bystander and** Buy Human Lung Cancer Risks From Radon: Influence From Bystander and Adaptive Response Non-Linear Dose Response Effects on ? **FREE Human Lung Cancer Risks from Radon Part III - SAGE Journals** Dec 2, 2012 - 32 sec Human Lung Cancer Risks From Radon: Influence From Bystander and Adaptive Response