



Applied Toxicology Approaches Through Basic Science Proceedings of the 1996 EUROTOX Congress Meeting Held in Alicante, Spain, September 22-25, 1996 Archives of Toxicology

By -

Springer. Paperback. Book Condition: New. Paperback. 417 pages. Dimensions: 9.1in. x 6.0in. x 0.9in. Ultraviolet radiation, a component of sunlight, has been recognized by photobiologists, dermatologists, and oculists as a potential hazard for human health because of its genotoxic, carcinogenic and immunotoxic properties. Its effects on human health include the induction of skin cancers, ocular damage and impairment of immunity to certain infections. A few decennia ago it was demonstrated that UV photons can affect the activity of the immune system through interactions with the skin. This means that UV not only changes normal cells into cancer cells but also permits the outgrowth of the UV -transformed cells by depressing the immune system. An intriguing question is what interactions between UV radiation and the skin initiates alterations in immune function in the exposed skin and systemically, i. e. in other places than the exposed skin. During the last 20 years many studies have been performed in order to investigate the immunosuppressive activities of UVB in laboratory animals and in human volunteers. In particular effects of UVB radiation on resistance to tumours and skin associated infections have been examined. In addition, effects of UVB radiation on immune parameters such as contact hypersensitivity...

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