USACHPPM UV HAZARDS BIBLIOGRAPHY - IMMUNE SYSTEM EFFECTS

Adams M.L., Houpt K.R., Cruz P.D. Jr., Is phototherapy safe for HIV-infected individuals?, "Photochem Photobiol," 64(2):234-237 (1996).

Baadsgaard O., In vivo ultraviolet irradiation of human skin results in profound perturbation of the immune system, "Arch Dermatol," 127:99-109 (1991).

Ballowitz, L., Geutler, G., Krochmann, J., Pannitschka, R., Roemer, G., Roemer, I., Phototherapy in Gunn Rats: A Study to Assess the Photobiologically most Effective Radiant Energy and Dose/Response Relationships, "Biology of the Neonate," 31:229-244 (1977).

Beasley D.G., Beard J., Stanfield J.W., Roberts L.K., Evaluation of an economical sunlamp, that emits a near solar UV power spectrum for conducting photoimmunological and sunscreen immune protection studies, "Photochem Photobiol," 64(2):303-309 (1996).

Beer J.Z., Olvey K.M., Lee W., Zmudzka B.Z., Reassessment of the differential effects of ultraviolet and ionizing radiation on HIV promoter: The use of cell survival as the basis for comparisons, "Photochem Photobiol," 59(6):643-649 (1994).

Beer J.Z., Zmudzka B.Z., Effects of UV on HIV and other infections, "Photochem Photobiol," 64(2):231-233 (1996).

Bestak R., Halliday G.M., Chronic low-dose UVA irradiation induces local suppression of contact hypersensitivity, Langerhans cell depletion and suppressor cell activation in C3H/HeJ mice, "Photochem Photobiol," 64(6):969-974 (1996).

Bockstahler L.E., Lytle C.D., Long-lived UV and x-ray reactivation of a human virus, "Proceedings, First Biophysics Congress," (edited by Broada E., Locker A., Springer-Lederer H.) Verlag der Wiener Medizinischen Akademie, Vienna, Austria, 2:357-361 (1971).

Chapman R.S., Effect of solar UV radiation on the risk of infectious disease in humans: epidemiological considerations, "Photochem Photobiol," 61:243 (1995).

Chapman R.S., Cooper K.S., DeFabo E.C., Frederick J.E., Gelatt N., Hammond S.P., Hersey P., Solar ultraviolet radiation and the risk of infectious disease: Summary of a workshop, "Photochem Photobiol," 61:223 (1995).

Churchill M., Dietary deficiency diseases among prisoners of war, "J Royal Army Med Corps," 85:294-298 (1945).

Cooper K.D., Effects of UV radiation from artificial light sources on the human immune system, "Photochem Photobiol," 61:231 (1995).

Cooper K.D., Oberhelman L., Hamilton T.A., Baadsgaard O., Terhune M., LeVee G., Anderson T., UV exposure reduces immunization rates and promotes tolerance to epicutaneous antigens in humans: Relationship to dose, CD1a-DR+ epidermal macrophage induction, and Langerhans cell depletion, "Proc Natl Acad Sci," 89:8497-8501 (1992).

Denfield, R.W., Tesmann, J.P., Dittmar, H., Weiss, J.M., Schopf, E., Weltzien, H.U., Simon, J.C., Further Characterization of UVB Radiation Effects on Langerhans Cells: Altered Expression of the Costimulatory Molecules B7-1 and B7-2, "Photochem Photobiol," 67(5):554-560 (1998).

Ellozy A.R., Ceger P., Wang R.H., Dillon J., Effect of the UV modification of alpha-crystallin on its ability to suppress nonspecific aggregation, "Photochem Photobiol," 64(2):344-348 (1996).

Elmets C., Photoimmunological Therapy, "Am Soc Photobiol, 25th Ann Meeting, St. Louis, MO July 5-10 1997," (1997).

Garssen J., Goettsch W., deGruijl F., Slob W., van Loveren H., Risk assessment of UVB effects on resistance to infectious diseases, "Photochem Photobiol," 64(2):269-274 (1996).

Garssen J., Goettsch W., Sonntag W., deGruijl F., van Loveren H., UVB can affect the immune system resulting in decreased resistance to infections and tumors, "," .

Garssen, J., Norval, M., El-Ghorr, A., Gibbs, N.K., Jones, C.D., Cerimele, D., De Simone, C., Estimation of the effect of increasing UVB exposure on the human immune system and related resistance to infectious diseases and tumours, "J Photochem Photobiol," 42(3):167-179 (1998).

Granstein R.D., Ultraviolet radiation effects on immunologic function, "Regional Immunol," 3:112-119 (1990).

Hanson, K.M., Simon, J.D., Photochemistry of urocanic acid: Evidence that urocanic acid should be used with caution in cosmetic formulations, "J Soc Cosmet Chem," 48:151-157 (1997).

Hanson, K.M., Simon, J.D., Research Note--The Origin of the Wavelength-Dependent Photoreactivity of Trans-Urocanic Acid, "Photochem Photobiol," 67(5):538-540 (1998).

Hanson, K.M., Simon, J.D., Research Note--The Photochemical Isomerization Kinetics of Urocanic Acid and Their Effects upon the in vitro and in vivo Photoisomerization Action Spectrum, "Photochem Photobiol," 66(6):817-820 (1997).

Hanson, K.M., Simon, J.D., The origin of the wavelength-dependent photoreactivity of trans-urocanic acid, "Photochem Photobiol," 67(5):538-540 (1998).

Hersey P., Effects of solar radiation on the human immune system: Clinical studies, "Photochem Photobiol," 61:239 (1995).

Hurks H.M.H., Out-Luitting C., Vermeer B.J., Claas F.H.J., Mommaas A.M., The Action Spectra For UV-Induced Suppression of MLR and MECLR Show that Immunosuppression is Mediated by DNA Damage, "Photochem Photobiol," 62(3):449-453 (1995).

Hurks H.M.H., Out-Luitting C., Vermeer B.J., Claas F.H.J., Mommaas A.M., UVB-Induced Suppression of the Mixed Epidermal Cell Lymphocyte Reaction is Critically Dependent on Irradiance, "Photochem Photobiol," 62(3):485-489 (1995).

Ijland, S.A.J., Noonan, F.P., Ceryak, S., Steenvoorden, D.P.T., Bouscarel, B., Hug, D., van Henegouwen, G.M.J.B., Research Note--Urocanic Acid Does not Photobind to DNA in Mice Irradiated with Immunosuppressive Doses of UVB, "Photochem Photobiol," 67(2):222-226 (1998).

Katiyar S.K., Elmets C.A., Agarwal R., Mukhtar H., Protection against ultraviolet-B radiation-induced local and systemic suppression of contact hypersensitivity and edema responses in C3H/HeN mice by green tea polyphenols, "Photochem Photobiol," 62(5):855-861 (1995).

Kibitel, J., Hejmadi, V., Alas, L., O'Connor, A., Sutherland, B.M., Yarosh, D., UV-DNA damage in mouse and human cells induces the expression of tumor necrosis factor alpha, "Photochem Photobiol," 67(5):541-546 (1998).

Kim, T.H., Ullrich, S.E., Ananthaswamy, H.N., Zimmerman, S., Kripke, M.L., Suppression of delayed and contact hypersensitivity responses in mice have different UV dose responses, "Photochem Photobiol," 68(5):738-744 (1998).

Kripke M.L., Immunologic effects of UV radiation and their role in photocarcinogenesis, "," 5:257-292 (1980).

Kripke M.L., Overview: Photoimmunology, "Photobiology," (edited by Riklis E.) Plenum Press, New York, (1991).

Krutmann J., Elmets C.A., Yearly review - Recent studies on mechanisms in photoimmunology, "Photochem Photobiol," 48(6):787-798 (1988).

Learn D.B., Beasley D.G., Giddens L.D., Beard J., Stanfield J.W., Roberts L.K., Minimum doses of ultraviolet radiation required to induce murine skin edema and immunosuppression are different and depend on the ulraviolet emission spectrum of the source, "Photochem Photobiol," 62(6):1066-1075 (1995).

Leszczynski D., Fagerholm S., Leszczynski K., The effects of the broadband UVA radiation on myeloid leukemia cells: the possible role of protein kinase C in mediation of UVA-induced effects, "Photochem Photobiol," 64(6):936-942 (1996).

Levkovich F.N., Goldfield A.Y., Rzhakhova G.E., The effect of short wavelength ultraviolet rays on the infectiosity and antigenic properties of the viruses of the Russian tick-borne and Japanese encephalitis, "Bull Exper Biol Med USSR," 43:843-847 (1957).

Longstreth J.D., de Gruijl F.R., Kripke M.L., Takizawa Y., van der Leun J.C., Effects of increased solar ultraviolet radiation on human health, "Ambio," 24:153-165 (1995).

Lowry D.R., et. al., Murine leukemia virus: High frequency activation in vitro by 5-iododeoxyuridine and 5-bromodeoxyuridine, "Science," 174:155-156 (1971).

Lytle C.D., et. al., Enhancement of viral transformation by ultraviolet light, "Internat J Radiat Biol," 18:297-300 (1970).

Morison W.L., Effects of ultraviolet radiation on the immune system in humans, "Photochem Photobiol," 50(4):515-524 (1989).

Morison W.L., PUVA therapy is preferable to UVB phototherapy in the management of HIV-associated dermatoses, "Photochem Photobiol," 64(2):267-268 (1996).

Neale R., Russell A., Muller H.K., Green A., Sun exposure, sunscreen and their effects on epidermal Langerhans cells, "Photochem Photobiol," 66(2):260-264 (1997).

Noonan F.P., DeFabo E., Ultraviolet-B dose-response curves for local and systemic immuno-suppression are identical, "Photochem Photobiol," 52:801-810 (1990).

Norval M., El-Ghorr A.A., UV radiation and mouse models of herpes simplex virus infection, "Photochem Photobiol," 64(2):242-245 (1996).

Ohnishi K., Matsumoto H., Takahashi A., Wang X., Ohnishi T., Heat shock transcription factor, HSF, is activated by ultraviolet irradiation, "Photochem Photobiol," 64(6):949-952 (1996).

Reeve V.E., Boehm-Wilco C., Bosnic M., Cope R., Ley R.D., Lack of correlation between suppression of contact hypersensitivity by UV radiation and photoisomerization of epidermal urocanic acid in the hairless mouse, "Photochem Photobiol," 60(3):268-273 (1994).

Roberts L.K., Beasley D.G., Sunscreens prevent local and systemic immunosuppression of contact hypersensitivity in mice exposed to solar-simulated ultraviolet radiation, "J Photochem Photobiol," 39(2):121-129 (1997).

Roberts L.K., Beasley D.G., Learn D.B., Giddens L.D., Beard J., Stanfield J.W., Ultraviolet spectral energy differences affect the ability of sunscreen lotions to prevent ultraviolet-radiation-induced immunosuppression, "Photochem Photobiol," 63(6):874-884 (1996).

Scheir R., Fencl F.B., Using UVC technology to enhance IAQ, "Heating/Piping/Air Conditioning," 68(2):109-124 (1996).

Selgrade J.K., Repacholi M.H., Koren H.S., Ultraviolet radiation-induced immune modulation: Potential consequences for infections, allergic, and autoimmune disease, "Environmental Health Perspectives," 105(3):332-334 (1997).

Skov, L., Hansen, H., Dittmar, H.C., Barker, J.N.W.N., Simon, J.C., Baadsgaard, O., Susceptibility of effects of UVB irradiation on induction of contact sensitivity, relevance of number and function of Langerhans cells and epidermal macrophages, "Photochem Photobiol," 67(6):714-719 (1998).

Skov, L., Hansen, H., Dittmar, H.C., Barker, J.N.W.N., Simon, J.C., Baadsgaard, O., Susceptibility of effects of UVB irradiation on induction of contact sensitivity, relevance of number and function of Langerhans cells and epidermal macrophages, "Photochem Photobiol," 67(6):714-719 (1998).

Snellman E., Jansen C.T., Laihia J.K., Milan T., Koulu L., Leszczynski K., Pasanen P., Research note: Urocanic acid concentration and photoisomerization in Caucasian skin phototypes, "Photochem Photobiol," 65(6):862-865 (1997).

Sontheimer R.D., Photoimmunology activity of retinoids in natural and dermatomyositis: A speculative review, "Photochem Photobiol," 63(5):583-594 (1996).

Sterenborg H.J.C.M., Investigations on the action spectrum of tumorigenesis by ultraviolet radiation, "PhD thesis," (1987).

Stingl G., Immune functions of skin cells, "Immunological and Pharmacological Aspects of Atopic and Contact Eczema," (edited by Czernielewski J.M.) Karger, Basel, 4:1-9 (1991).

Terrian D.L., Kuhl C.N., Tessman I., Morrison H., On the roles of urocanic acid in photoimmunosuppression: attempted photorepair of urocanic acid-DNA cyclobutance adducts with DNA photolyase, "Photochem Photobiol," 63(6):898-900 (1996).

Ullrich S., Does exposure to UV radiation induce a shift to a Th-2-like immune reaction?, "Photochem Photobiol," 64(2):254-258 (1996).

Ullrich S.E., The role of epidermal cytokines in the generation of cutaneous immune reactions and ultraviolet radiation-induced immune suppression, "Photochem Photobiol," 62(3):389-401 (1995).

van der Leun J.C., UV radiation from sunlight: Summary, conclusions and recommendations, "J Photochem Photobiol," 35(3):237-244 (1996).

van Vunakis H., Immunological Detection of Radiation Damage in DNA, "Immunological Detection of Radiation Damage in DNA," 5:293-311 (1980).

Yoshikawa T., Streilein J.W., Genetic basis of the effects of ultraviolet light B on cutaneous immunity. Evidence that polymorphism at the Tnfa and Lps loci governs susceptibility, "Immunogenetics," 32:398-405 (1990).

Zmudzka B.Z., Beer J.Z., Yearly review - Activation of human immunodeficiency virus by ultraviolet radiation, "Photochem Photobiol," 52(6):1153-1162 (1990).

Zmudzka B.Z., Miller S.A., Jacobs M.E., Beer J.Z., Medical UV exposures and HIV activation, "Photochem Photobiol," 64(2):246-253 (1996).

Zmudzka B.Z., Strickland A.G., Miller S.A., Valerie K., Dall'acqua F., Beer J.Z., Activation of the human immunodeficiency virus promoter by UVA radiation in combination with psoralens or angelicins, "Photochem Photobiol," 58(2):226-232 (1993).