

Light and Skin: How Light Sustains, Damages, Treats, Images and Modifies Skin Biology

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Photosensitization of melanin by visible light damages melano-competent cells

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In the search for specific mechanisms of photo-induced cell death

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TLR3 activation is important for skin barrier repair following UV exposure

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Repair of UV-damaged DNA in human and mouse skin models via nuclear targeting of pyrimidine dimer-specific DNA glycosylases

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Co-operative role of keratinocytic Retinoid-X-Receptor α (RXR α) and multiple oncogenic signaling in UV irradiation (UVR) induced melanoma

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Snail2 inhibits terminal differentiation by directly down-regulating the serine proteinase, matriptase-1

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Investigation of melanosome synthesis in melanocytes and its transfer to keratinocytes by electron microscopy and fluorescence microscopy

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Multimodal optical diagnostics for melanoma screening

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The desmosomal protein Desmoglein 1 and the histone deacetylase inhibitor Trichostatin A aid recovery of epidermal differentiation after ultraviolet light exposure

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Ultraviolet photography impact on the sun safety awareness and behavior of skiers and snowboarders

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An aging dermal phenotype and persistent dermal hyperemia, but not epidermal hyperplasia or p53 immunopositivity, are early premalignant changes that are predictive of UVB-induced skin cancer formation

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Computer-based algorithms for classification of skin cancer morphology in reflectance confocal microscopy images

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Elucidating temporal dynamics of NF- κ B activation by TNF- α in melanoma

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Melanin detection by stepwise multi-photon activation fluorescence microscopy

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Pc 4 phototoxicity in *Trichophyton rubrum*

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A fast and sensitive *in vivo* technique for quantifying skin surface roughness based on laser speckle contrast

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Fight IR-induced aging: A novel approach to protect skin from sun-induced aging

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Advances in the protection and reparation of human epidermal cells from UV-induced DNA damages

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Complement C5a contributes to squamous carcinogenesis

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Preclinical *in vivo* evaluation of pulsed dye laser and photodynamic therapies on normal vasculature

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Network signatures of nuclear and cytoplasmic density alterations in a model of cellular level metastasis

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Confocal microscopy to guide laser ablation of basal cell carcinoma: A preliminary *ex vivo* and *in vivo* study

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Cutaneous squamous cell carcinoma is enhanced in mice treated topically with 17- β -estradiol

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The immune atlas: A topographical three-dimensional study of the skin immune system using multiphoton microscopy and multi-parameter flow cytometry

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Colorado Melanoma Foundation: Inception, development, influence

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Comprehensive imaging of skin morphology and functions *in vivo* using optical coherence tomography integrated with multiphoton microscopy

Elhabib Benlhabib, LeeAnn Higgins, Lorraine B. Anderson, Maria K. Hordinsky, Mark R. Pittelkow, Ana Carina A. Junqueira Bertin, Ioanna G. Panoutsopoulou, Gwen Wendelschafer-Crabb, William R. Kennedy, and **George L. Wilcox**
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The proteomic profile of human keratinocytes and intact epidermis using iTRAQ® technology: Comparison between control and UVB-irradiated cells

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The E3 ubiquitin ligase Trim32 has a functional role in the development and progression of cutaneous squamous cell carcinoma

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Assessing and modeling site-specific variation in cutaneous autofluorescence through excitation-emission matrix (EEM) spectroscopy