

〈教育セミナー〉

紫外線と皮膚の劣化について

—細胞レベルでの基礎的理解—

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Cutaneous Injury by Ultraviolet

—Pathogenic mechanisms in cellular level—

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Abstract

From the view point of chromophores in the skin, cellular damages caused by solar light are briefly reviewed. In skin, UVB- and UVA-absorbing molecules are present. The major chromophores absorbing UVB ranges are DNA, nucleic acid and other biomolecules. Absorbing molecules for UVA also exists in the skin tissues. In this paper, etiological mechanisms for apoptosis, reactive oxygen production and molecular mechanisms for the formation of dermal elastosis are discussed with special reference to cellular chromophores.

Key words: chromophores, UVB, UVA, apoptosis, solar elastosis.