

〈シンポジウム〉

「皮膚科医と化粧品研究者とのクロストーク」

## し わ と こ じ わ

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### Wrinkles and Chaps

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#### Abstract

There are two types of wrinkles in the skin. One is mediated through the loss of elasticity in the dermal tissue of especially sun-exposed area and is generally called photodamaged skin. The other occurs as a result of deficient water-holding properties of the stratum corneum. The two types of wrinkles can be differentialized by standard image analysis using replica or by three-dimensionally integrated image analysis. Whereas driness-derived wrinkles are induced by the diminished water content in the stratum corneum and easily restored by the repeated application of moisturizers which supply an enough amount of water into the stratum corneum, photodamage-derived wrinkles are inducible by repeated sun exposures and can be cured only by the applications of retinotic acid which has several influences on the metabolism of connective tissue including elastin and collagen. These differential responses of wrinkles to various exogenous stimuli and applications help us to distinguish the different types of wrinkles.

**Key words:** wrinkle, dry skin, water-holding property, moisturizer, connective tissue