

〈シンポジウム〉

(抗老化化粧品の一戦略——シワ対策化粧品の一戦略)

## コ ラ ー ゲ ン 変 性 と シ ワ

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### Collagen Fiber Bundles and Wrinkling

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#### Abstract

Despite that the ultrastructure of dermal collagen fiber bundles is known to be affected on both the strength and the impression of skin surface in wound healing, few investigation of the relationship between the bundles and wrinkling have been studied. We have investigated the relationship between changes in bundle structure and skin elasticity, and related these to wrinkle formation. From the results of our investigation, we propose that the degenerative changes of the bundle show significant relationship with both elasticity and wrinkle appearance. Based on these findings, we investigated effects of ursolic acid, of which effects on the bundle formation in skin wound healing are reported, on the improvement of the photodamaged mouse skin. The application of ursolic acid shows remarkable restoration the bundle structure, and it also shows significant effacement effects on both wrinkling and elasticity without any side effects.

**Key words:** wrinkle, collagen, ursolic acid.