

日本化粧品学会誌 Vol. 33, No. 3, pp. 191-197 (2009)

〈シンポジウム I〉

『観る。生体・化粧品を見る，捉える。』

角層成分の深さ分布の計測 —ラマン分光法の最新知見—

江川麻里子

Measurement of the Depth Profile of Stratum Corneum Components —Recent Progress in Raman Spectroscopy—

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Abstract

Recent progress in confocal Raman spectrometer has enabled us to obtain information of the depth profiles of different molecular composition, *e.g.*, water, free amino acids, lipids *etc.*, of the skin *in vivo*. In addition, it offers us new insights into not only the dermatology and cosmetology field, but also drug penetration into the skin. In this paper, I introduce our recent studies on the depth profile of water and skin components, as well as the studies from the other research groups including application to the drug delivery evaluation.

Key words: amino acid, lipid, Raman, stratum corneum, water.