

〈シンポジウム〉

## γ-オリザノールの外用製剤への応用

—基礎化粧品添加物としての評価—

鹿熊武\*、押田勝\*、藤縄知昭\*、  
森井勇\*、吉田裕一\*、桜田恵子\*

### Application of $\gamma$ -Oryzanol to Topical Agent — Evaluation as a Cosmetic Additive —

Takeshi KAKUMA,\* Masaru OSHIDA,\* Tomoaki FUJINAWA,\*  
Isamu MORII,\* Yuichi YOSHIDA,\* and Keiko SAKURADA\*

#### Abstract

The application of  $\gamma$ -oryzanol as a cosmetic additive has been investigated with a 1% o/w type cream, in which  $\gamma$ -oryzanol was completely dissolved. A double blind test indicated that 1%  $\gamma$ -oryzanol cream increased sebaceous secretion and exhibited therapeutic effects on dermal xerosis and ichthyosis.

In the acute and subacute toxicity tests by transdermal application, no specific toxicity was observed at less than 5% concentration of  $\gamma$ -oryzanol. Skin irritation and eye mucosal irritation were found to be extremely low. Antigenicity, phototoxicity, photoallergy and mutagenicity were not observed. Furthermore, human skin irritation by patch test and side effects in clinical applications were not serious.

Thus, the 1%  $\gamma$ -oryzanol cream is useful for preventing skin roughness due to dry skin, since it stimulates sebaceous secretion and keeps the skin moist.