

〈シンポジウム〉

(化粧品安全性・環境のリスクアセスメントの現状と課題)

## A Risk Assessment-Based Approach to Skin Safety Evaluation

Seok KWON\*

### Abstract

The conduct of a scientifically sound safety assessment of new ingredients and finished products is essential through their development and introduction into the marketplace of consumer products. Such assessments are based on a risk assessment paradigm established by the National Academy of Science (NAS) that consists of a four-step process : hazard identification, dose-response assessment, exposure assessment, and risk characterization. This paper describes an approach to risk assessment for induction of skin sensitization that builds on the principles of general risk assessment and characterizes the risk from human exposure to skin sensitizers. As such, this approach is used to establish an acceptable exposure level for a skin sensitizer in consumer products.

**Key words:** exposure-based risk assessment, quantitative risk assessment, skin sensitization, skin sensitizers, allergic contact dermatitis.