

〈講 演〉

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## 有効性とセットで考える機能性化粧品素材の安全性

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### **Safety Assessment for Functional Cosmetic Materials by Considering the Basis of their Effectiveness**

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#### **Abstract**

This review describes safety assessment of functional cosmetic materials together with its effectiveness, selected from the talk of the president presentation at the 31<sup>st</sup> Annual Meeting of Japanese Cosmetic Science Society held on June 8-9, 2006 at Tokyo. There are various toxicity tests for safety assessment of chemicals. The results of toxicity tests for chemicals should be assessed together with those of their pharmaco- and toxicokinetics. This review also briefly summarizes drug metabolism, oxidative stress response and protective mechanism against oxidative stress in relation to development of functional cosmetic materials.

**Key words:** safety assessment, functional cosmetic materials, drug metabolism, heme oxygenase, Nrf2.