

〈シンポジウム：“General Toxicology”〉

CURRENT PROBLEMS OF GENERAL TOXICOLOGY FOR THE EVALUATION OF THE SAFETY OF COSMETICS INGREDIENTS

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Abstract

Traditional procedures cannot meet the pressing need for data on which risk assessment of cosmetics ingredients (CI) can be based. New concepts and techniques are evolving, from which a hierarchy of hazard evaluation can be fashioned. A dynamic and flexible approach is needed that is directed, whenever possible, to the structural characteristics as well as physical, chemical and metabolic properties of the particular CI molecule being studied. Exploration of relevant biological activities proceeds by the application of tests intended to establish dose-response relationships with respect to the salient features of the toxicity of the CI. Depending on toxic potentialities thus revealed, on potency, and on the nature and extent of anticipated exposure in the course of manufacture and use, further progression to more prolonged and elaborate tests may be considered advisable. It is important that regulatory requirements do not impose a rigid framework of standardized tests that rules out informed, selective and flexible approaches to safety evaluation.