

〈シンポジウム〉

機能を持つ化粧品の有用性を支える技術

安全性評価における代替法の現状と現在抱える問題点

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**The Current Situation and Issue of Alternative Testing on Safety Evaluation**

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**Abstract**

Safety evaluation is a critical component in the development of functional cosmetics. As part of the safety evaluation process, more non-animal testing is forthcoming due to animal welfare requirements and recent ban on *in vivo* testing in the EU with the passing of the 7<sup>th</sup> amendment to the Cosmetic Directive. However, alternative methods, which public organizations, such as OECD, accept, are still few. To address this problem, recent positive advancements have occurred in the development of alternative testing methods. There are three important points in developing a useful alternative testing method. One is elucidation and understanding of the toxic mechanism of action. A second is acquisition of useful objective *in vivo* data or utilization of newly reanalyzed current *in vivo* data. Thirdly, a greater international collaboration between validating and reviewing organizations (e.g., ECVAM) from the U.S., Europe, and Japan becomes more important in getting a quicker acceptance of the method. With progress in these three areas, development and establishment of useful alternative testing methods may become available earlier.

**Key words:** alternative, OECD, mechanism.