

〈講 演〉

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化粧品学における基礎研究

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Basic Research in Cosmetics Science

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**Abstract**

Even though human beings and society have changed, our awareness of beautifully dressing ourselves and seeing others has not changed. Cosmetics start to encouragement with others as well as having a sense of happiness. Cosmetic can be dressed not only superficially but also my own heart. For these reasons, there is full trust in using them. On the both side of making and using, the high quality and safety of products created with advanced technology are shared and understood. We can see the advanced scientific images with guarantee safety in cosmetic fields enhancing to high applied sciences and making excellent products by utilizing of advanced information and technology obtained in basic science. When transitioning from the 20th century of micro to the new century of the 21st century, it is expected to be used industrial nanomaterials in various fields. Regarding nanomaterials, they were subjects of different categories from conventional chemical substances, such as concepts and evaluation methods. Scientific studies have begun, with understanding that it is important to evaluate safety and to take countermeasures before being used, rather than after accumulating information after use. For cosmetics, the use of nanomaterials of various basic materials and forms was being considered. Therefore, examination was advanced on safety, include a wide range of research fields and technologies such as information on physicochemical properties of materials, state of existence in products, physiology of skin, mechanisms of absorption/metabolism/excretion, influence of environmental factors, analysis techniques. Although studies supported by such various fields on nano industrial materials will continue, it is well known that enormous achievements are also accumulated and safety is ensured in cosmetics. In this way, I trust that advanced technology for productization and efforts to evaluate safety are the cornerstones that cosmetics can be used with relief.

**Key words:** cosmetics, basic research, nanomaterial, safety, relief.