

## **Comprehensive study on the skin function and conditions for enhancing the expression of epidermal cell-cell adhesion molecules**

**Jun Yamagami**

*Department of Dermatology, Keio University School of Medicine*

This study aimed to comprehensively evaluate skin function by examining the conditions for enhancing the expression of epidermal intercellular adhesion molecules. Our results suggested the effect of steroid administration on enhancing desmoglein expression and would help with understanding the adhesive function of epidermal cells. Steroid effects on other molecules making up desmosomes, cytoskeleton and other barrier structures, and compounds other than steroids are expected to be clarified on the basis of this study when the exhaustive search system of mRNA expression, which are still underway, is set up. The ultimate goal of this study is the accumulation of information needed to maintain skin health for a longer period of time, and the conditions for maintaining skin with a stronger adhesion function. Because epidermal cell-cell adhesion is an important basic function of the skin, we are going on our efforts to disseminate new information about the direction of skin care. From another point of view, it was very meaningful to obtain new knowledge directly related to the pathogenesis and treatment of pemphigus and pemphigoid, state-designated intractable diseases. We have been able to collect information on epidermal cells not only from healthy skin but also from diseased skin that has caused blisters and erosions from various angles, and would like to contribute to cosmetology, which is expected to become more diversified in the future.