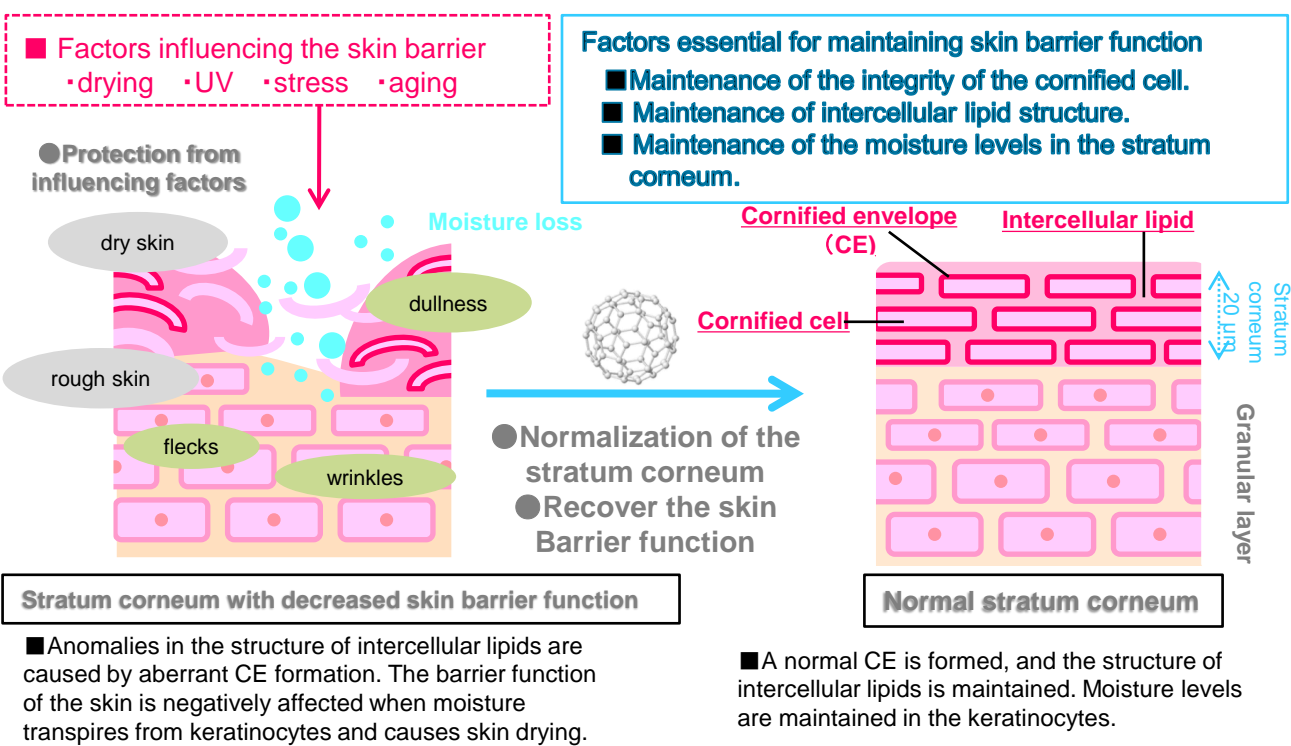




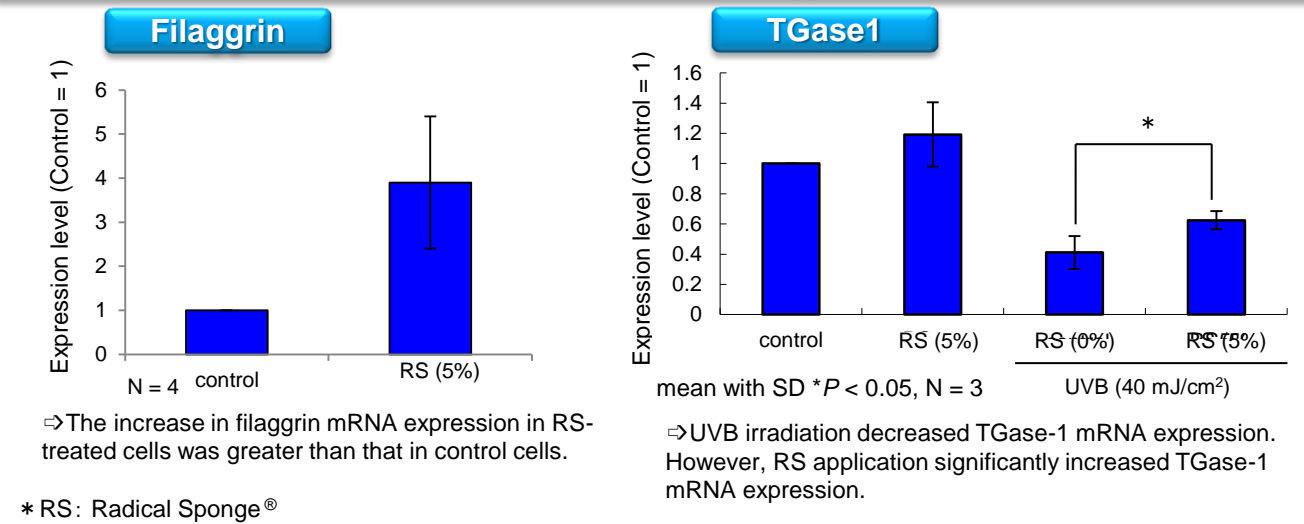
Effect of Fullerenes on the Skin Barrier

Structure and function of the stratum corneum

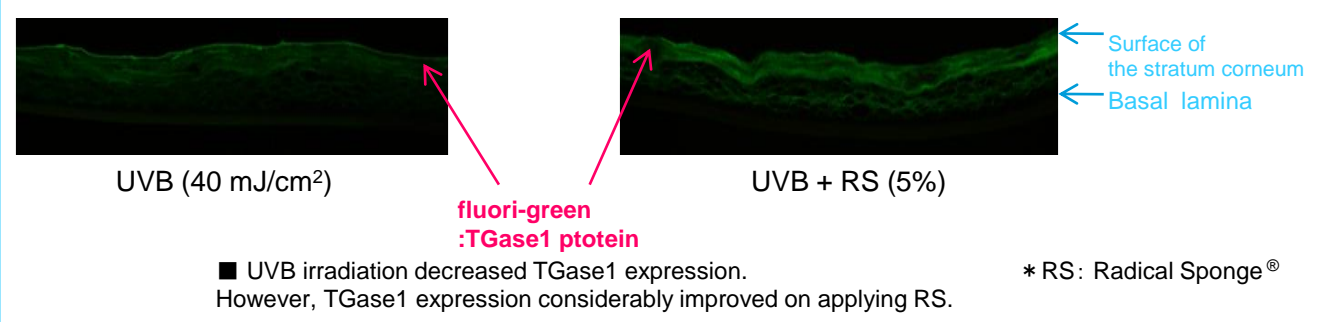


- Fullerenes increase transglutaminase 1 (TGase1; cornified factor) mRNA expression.
- Fullerenes increase cornified envelope formation and help maintain skin barrier function.
- Clinical tests have proven that fullerenes help in recovering skin barrier function.

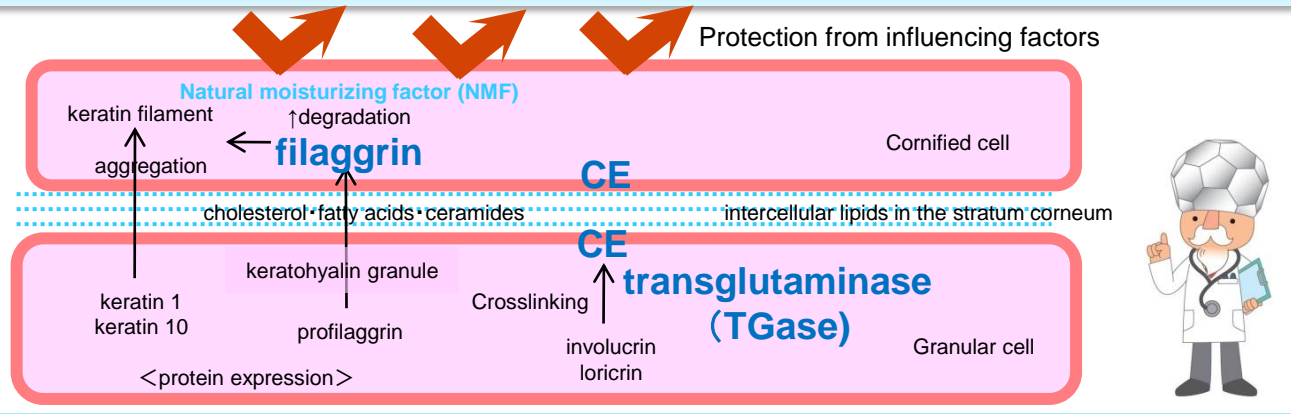
Increased mRNA expression of TGase1 and filaggrin in human keratinocytes



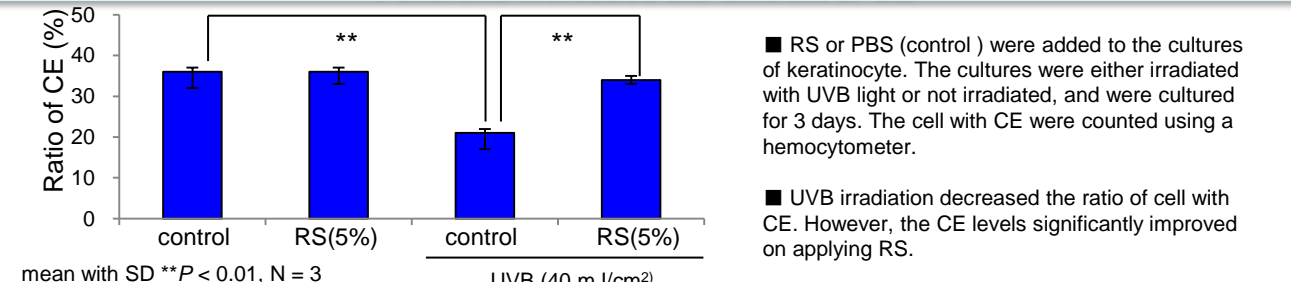
TGase1 protein expression



Principal component of the stratum corneum and the generation process

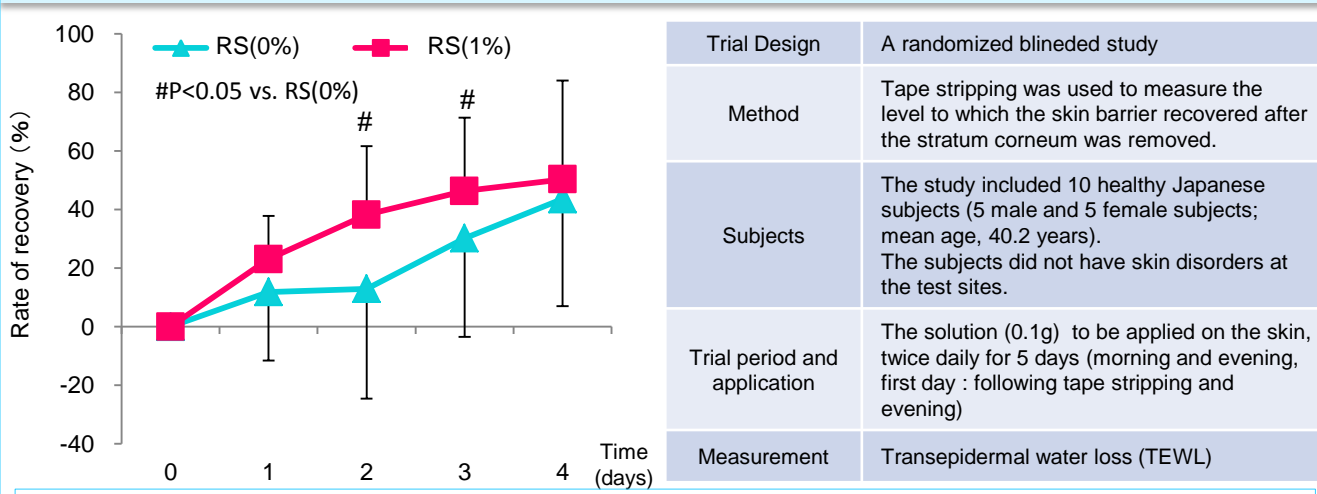


Fullerene increased the amount of CE



These results showed that UVB irradiation-induced perturbation of the skin barrier improved when RS application increased the amount of CE.

Clinical test : Effect of recovering skin barrier function



Removing the stratum corneum decreased skin barrier function. However, RS helped to significantly recover skin barrier function at 2 and 3 days after application.

Data source: Prof. Maeda, Ph.D., Tokyo University of Technology

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