

March 26th, 2024

Nikko Chemicals Co., Ltd.

**Satoshi Yoshimoto of Nikko Chemicals  
Won the ASCS CONFERENCE 2024 Special Poster Prize:  
“Improvement of Sensitive Skin Through Multifunctional  
Lysolecithin**

Tokyo, March 19th, 2024 - Nikko Chemicals Co., Ltd. is pleased to announce that Satoshi Yoshimoto, a researcher at our Central Laboratory, was awarded the Special Poster Prize at the Asian Societies of Cosmetic Scientists (ASCS) Conference 2024.

ASCS was established as a federation of cosmetics specialist associations in Asia, Oceania, and the Middle East to promote the development of the cosmetics science and industry by deepening the interactions among academic communities in these three regions.

The conference is held biennially, and this year's conference was held for three days starting on March 6 in Goa, India. Oral and poster presentations were organized, and technical and cultural exchanges took place. PhD. Yoshimoto, our researcher at the Skin Evaluation Group of the Evaluation and Analytical Technology Development Office in the Central Laboratory, received a special award for his poster presentation.

Upon receiving this award, Mr. Yoshimoto commented “I am very pleased that the concept of a functional ingredient derived from soybeans, which was inspired by the wound healing system of living organisms, and newly acquired data, have attracted so much interest. Please look forward to further research in the future.” This study is the result of a research conducted using “NIKKOL LECINOL ® MFL\*1,” a new product launched in 2023.

**<Research Summary>**

The number of people suffering from sensitive skin caused by atopic dermatitis and stress, etc. is increased. According to “The prevalence of sensitive skin”, 60-70% of women and 50-60% of men report having some degree of sensitive skin on surveys conducted in 20 different countries in 5 continents. One way to improve the sensitive skin is to increase the barrier component derived from keratinocytes that can help in maintaining the basal skin parameter.

We are especially focused on lysophosphatidic acid, which is a type of lysophospholipid. This is because human originally uses it as a support system for the skin barrier. We reported on the benefit to skin barrier of functional lysolecithin, which was newly developed containing lysophosphatidic acid, using in vitro and in vivo test at this conference. The functional lysolecithin induced increase of the barrier related factors, epidermal-filaggrin and SC-ceramides, in normal human epidermal keratinocytes (NHEKs). In 0.1% functional lysolecithin cream condition, the stratum corneum moisture content increased (+50%) compared to the baseline. Furthermore, stinging-score decreased significantly in 0.1% functional lysolecithin cream condition compared to the placebo cream condition. These results indicated that functional lysolecithin promotes the improvement of the sensitive skin through the regulation of epidermal barrier maturation.

**<Biographies of Award Winners>**

Satoshi Yoshimoto



Education	Doctor of Philosophy in Engineering (May 2020)
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	Graduate school of Okayama university of science
Experience	NIKKO CHEMICALS, Co., Ltd. (April 2020-present)
Specialty	Skin biology (photoaging · pigmentation)

In June 2023, Nikko Chemicals established a local subsidiary, Nikko Chemicals (India), in India, where this conference was held. We will continue to provide high-quality cosmetic raw materials and technical support to the rapidly growing Indian cosmetic market.

\*1 NIKKOL LECINOL ® MFL

It is a multifunctional lysolecithin with high lysophosphatidic acid content, which is increased through our unique enzymatic processing method. This lysolecithin can be expected to accelerate the production of ceramide, a major component of intercellular lipids, and filaggrin, a natural moisturizing factor. In addition, it is expected to promote the formation of tight junctions, which comprehensively affects the strengthening of the skin barrier.

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