

Mandom is awarded the Society of Cosmetic Chemists of Japan (SCCJ) Congress Best Poster Presentation Award 2025

Mandom Corporation (Head office: Osaka, President Executive Officer & Director: Ken Nishimura, hereinafter “Mandom”) won the Best Poster Presentation Award at the third Annual Congress of the Society of Cosmetic Chemists of Japan (SCCJ), held from Monday, December 8 to Wednesday, 10, 2025, for the research titled “Analysis of signaling pathways regulating primary ciliogenesis in inflammatory skin disease,” conducted by a research group involving Mandom and the Laboratory of Advanced Cosmetic Science of the Graduate School of Pharmaceutical Sciences, the University of Osaka. This Award aims to further develop and stimulate research in the cosmetics-related field and is given to the best poster presentation at the Congress. This presentation was chosen from 69 poster presentations.



Award winner Ayane Nakaoku

- **Presentation theme title**
Analysis of signaling pathways regulating primary ciliogenesis in inflammatory skin disease
- **Award recipient**
Ayane Nakaoku (Mandom Corporation Skin Care Institute Cleanse Care Product Development Section)
- **Research overview**
The research group in which Mandom and the Laboratory of Advanced Cosmetic Science of the Graduate School of Pharmaceutical Sciences, the University of Osaka, participate was the first in the world to discover the presence of organelles called “primary cilia” in human primary immune cells, and it announced its findings* in 2023.



This presentation revealed how the research progressed to find that cucurbitacin IIa, a substance found in Cucurbitaceae plants, inhibits the formation of primary cilia, which serve as antennae for cells. This inhibition occurs through the inactivation of the phosphorylated protein ERK (Extracellular signal-Regulated Kinase), suggesting that cucurbitacin IIa may contribute to the normalization of skin barrier function.

This presentation was based on the results of joint research with Specially Appointed Assistant Professor Manami Toriyama of the Laboratory of Advanced Cosmetic Science of the Graduate School of Pharmaceutical Sciences, the University of Osaka; Professor Ken Ishii of the Institute of Medical Science, the University of Tokyo; Professor Akimichi Morita of the Graduate School of Medical Sciences, Nagoya City University; and others.

The results of this research are expected to lead to new approaches to the development of anti-inflammatory agents and drugs for treating skin diseases as well as applications in skin care. Mandom will continue our Dedication to Service (Oyakudachi) so as to create new value and conduct research that will be useful to consumers.

* Released on June 16, 2023 “ World's first primary cilia found in human primary immune cells Clarified the functions for cutaneous immune responses—Expected application for dermatological drugs and skin care agents focusing on primary cilia—”