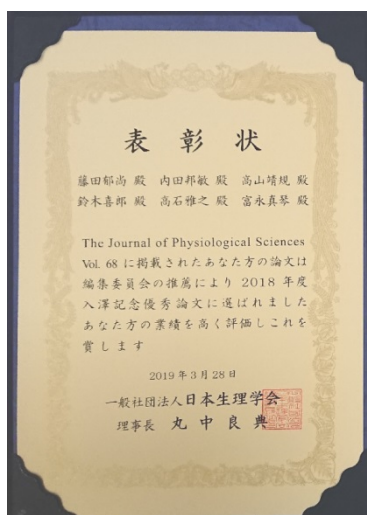


Mandom received Hiroshi and Aya Irisawa Memorial Award for Excellent Papers in The Journal of Physiological Sciences at The 96th Annual Meeting of Physiological Society of Japan

Mandom Corporation (Head Office: Osaka, President Executive Officer: Motonobu Nishimura, hereafter “Mandom”), through collaboration with Professor Makoto Tominaga of Exploratory Research Center on Life and Living System, National Institute of Natural Science, has developed a cosmetics evaluation method focused on using TRP (Transient Receptor Potential) channels (see “Reference material: Working with TRP channels”) as sensors of skin sensations, and applying this method to product development.

Mandom’s previous scientific paper named “Hypotonicity-induced cell swelling activates TRPA1”, which is published on Journal of Physiological Sciences, received Hiroshi and Aya Irisawa Memorial Award for Excellent Papers¹⁾ in The Journal of Physiological Sciences at The 96th Annual Meeting of Physiological Society of Japan held from March 28 to 31, 2019. This is second time that Mandom receives the award.

Mandom is continuing to explore research for sensory irritation and apply these evaluation methods for sensory irritation in its future products for consumer use.



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1. Title

Hypotonicity-induced cell swelling activates TRPA1

2. Publication

Journal of Physiological Sciences

3. Researchers

Fumitaka Fujita, Masayuki Takaishi; Mandom Corporation

Kunitoshi Uchida, Yasunori Takayama, Yoshiro Suzuki, Makoto Tominaga;

Exploratory Research Center on Life and Living System, National Institute of Natural Science

4. Contents

Mandom found that TRPA1, a sensor for sensory irritation, can be activated by cell swelling in hypotonic condition, which is thought to be related to sensory irritation at nasal or ocular mucosa by hypotonic solution like water. This finding indicates the role of TRPA1 as mechano-sensor, which has been unclear for a long time.²⁾

<Notes>

- 1) Hiroshi and Aya Irisawa Memorial Award for Excellent Papers in The Journal of Physiological Sciences
The Physiological Society of Japan established an award, which is named in honor of Dr. Hiroshi Irisawa, to promote the contribution of high-quality papers particularly those written by junior members of the Society in 1991. From 2010 the awards was changed the name to Hiroshi and Aya Irisawa Memorial Award for Excellent Papers in The Journal of Physiological Sciences. This award is offered to the authors of outstanding papers published in the Journal of Physiological Sciences.
- 2) “Identification by Mandom of the mechanism by which hypo-osmotic solutions such as water cause irritation in the nasal cavity and eyes” released July 9, 2015.

END