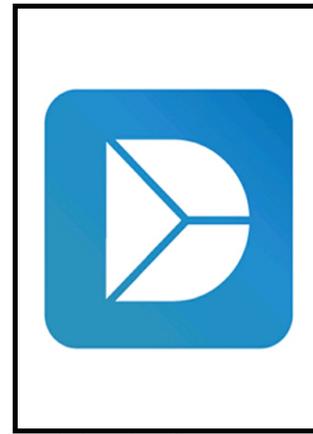


# Author's Accepted Manuscript

Clustering of commercial fish sauce products based on an e-panel technique

Mitsutoshi Nakano, Yoshimasa Sagane, Ryosuke Koizumi, Yozo Nakazawa, Masao Yamazaki, Kiyoharu Ikehama, Koichi Yoshida, Toshihiro Watanabe, Katsumi Takano, Hiroaki Sato



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## Data article

**Title:** Clustering of commercial fish sauce products based on an e-panel technique

**Authors:** Mitsutoshi Nakano <sup>a,b</sup>, Yoshimasa Sagane <sup>a</sup>, Ryosuke Koizumi <sup>a</sup>, Yozo Nakazawa <sup>a</sup>, Masao Yamazaki <sup>a</sup>, Kiyoharu Ikehama <sup>c</sup>, Koichi Yoshida <sup>c</sup>, Toshihiro Watanabe <sup>a</sup>, Katsumi Takano <sup>d</sup>, Hiroaki Sato <sup>a</sup>

**Affiliations:**

<sup>a</sup> Department of Food and Cosmetic Science, Faculty of Bioindustry, Tokyo University of Agriculture, 196 Yasaka, Abashiri Hokkaido 099-2493, Japan

<sup>b</sup> The Organization for the Promotion of International Relationship, 709, 1-1-7 Motoakasaka Minato-ku, Tokyo 107-0051, Japan

<sup>c</sup> Alpha M.O.S. Japan K.K., 1-5-4 Takanawa, Minato-ku, Tokyo 108-0074, Japan

<sup>d</sup> Department of Applied Biology and Chemistry, Faculty of Applied Bioscience, Tokyo University of Agriculture, 1-1-1 Sakuragaoka, Setagaya-ku, Tokyo 156-8502, Japan

**Contact email:** hsato@bioindustry.nodai.ac.jp

### Abstract

Fish sauce is a brownish liquid seasoning with a characteristic flavor that is produced in Asian countries and limited areas of Europe. The types of fish and shellfish and fermentation process used in its production depend on the region from which it derives. Variations in ingredients and fermentation procedures yield end products with different smells, tastes, and colors. For this data article, we employed an electronic panel (e-panel) technique including an electronic nose (e-nose), electronic tongue (e-tongue), and electronic eye (e-eye), in which smell, taste, and color are evaluated by sensors instead of the human nose, tongue, and eye to avoid subjective error. The presented data comprise clustering of 46 commercially available fish sauce products based separate e-nose, e-tongue, and e-eye test results. Sensory intensity data from the e-nose, e-tongue, and e-eye were separately classified by cluster analysis and are shown in dendrograms. The hierarchical cluster analysis indicates major three groups on e-nose and e-tongue data, and major four groups on e-eye data.

### Specifications Table

Subject area	Food science
More specific subject area	Food quality assessment using electronic sensor technology
Type of data	Table and dendrograms
How data was acquired	Each fish sauce product was tested with an e-nose ( $\alpha$ FOX 4000, Alpha M.O.S., Toulouse, France), e-tongue (ASTREE, Alpha M.O.S.), and e-eye (IRIS VA300, Alpha M.O.S.), and the resulting data subjected to cluster analysis using R software.

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