

Special Issue

The Importance of Taste on Dietary Choice: Modulation of Taste Sensitivity

Message from the Guest Editors

Appetitive sweet, umami and salty tastes guide us to select foods which are high in energy and that maintain ionic balance. However, sweet and salty tastes are also associated with increased ingestion of sugar and salt, a contributing factor in the increased prevalence of taste-related chronic diseases. Significant progress has been made in the identification of receptors and downstream signaling effectors involved in the transduction of bitter, sweet, umami, salty and sour tastes. Such taste stimuli not only elicit their own stimuli-specific taste but also often result in either enhancement or suppression of other taste responses. Therefore, such stimuli can be potentially used as novel strategies to enhance the sweet taste sensitivity to potentially reduce sugar intake or the aversiveness of bitter tastes to increase acceptance of nutritious foods that taste bitter. In this Special Issue, we will summarize recent advances in the modulation of taste sensitivity, identification of taste modulators, their underlying mechanism of action in psychophysical, neural and cellular models and their potential role in taste recognition.

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Message from the Editorial Board

Nutrients is an on-line open access journal that was first published in 2009. *Nutrients* adheres to rigorous peer-review and editorial processes and publishes only high quality manuscripts that address important issues related to the impacts of nutrients on human health. The Impact Factor of *Nutrients* has risen rapidly since its establishment and it is now ranked in the first quartile of journals publishing in the field of nutrition and dietetics research.

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