

1. Record Nr.	UNINA9910744505703321
Autore	San Gabriel Ana
Titolo	Umami : Taste for Health / / edited by Ana San Gabriel, Tia M. Rains, Gary Beauchamp
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2024
ISBN	3-031-32692-X
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (200 pages) : illustrations (black and white)
Collana	Food and Health, , 2509-6397
Classificazione	SCI007000TEC012000TEC012010
Disciplina	664.001579
Soggetti	Food - Microbiology Food science Food - Sensory evaluation Nutrition Food - Analysis Chemistry Food Microbiology Food Science Sensory Evaluation Food Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. Umami and MSG -- 2. Sensory Physiology of Umami -- 3. Umami and Salty: A Cooperative Pair -- 4. Protein, Umami and Satiety -- 5. Development and Umami -- 6. Umami and Healthy Aging -- 7. Umami As A Component of Healthy Diets -- 8. Practicalities from Culinology.
Sommario/riassunto	This Open Access book covers the concept of umami, the unique taste imparted by the amino acid glutamate, was first described in 1908 by Dr. Kikunae Ikeda of Tokyo University. Over the past century, hundreds of studies have explored the mechanistic underpinnings of the taste, leading to the characterization of the umami taste receptor in 2002. How this fifth basic taste figures into nutrition and health, however, remains underexplored. Umami: Taste for Health provides an overview of the relationship between umami and human health. Authors explain

how glutamate not only produces a characteristic oral sensation in the mouth but also functions as a signaling molecule to induce physiological responses. With the support of recent studies, the book demonstrates how the taste properties of umami make glutamate a promising substance to lower salt intake, promote satiation and support healthier aging. The text also covers practical culinary applications to increase umami flavor and practical usage of umami for promoting healthy eating. Provides an overview of the relationship between umami and human health; Explores the potential of glutamate to lower salt intake, promote satiation and support healthier aging; Covers practical culinary applications of umami flavor and practical usage of umami for promoting healthy eating.

---