

Special Issue

Molecular and Cellular Mechanisms of Taste and Smell: From Physiology to Pathology

Message from the Guest Editor

Taste and smell are essential for nutrition, flavor perception, and quality of life. Working together, they guide survival behaviors such as detecting nutrient-rich foods, avoiding harmful substances, and interacting with the environment. Advances in molecular and cellular biology have greatly deepened our understanding of chemosensory function, from receptor signaling and neural processing to pathological alterations.

Dysfunctions in taste and smell are now recognized as early markers or comorbidities in diverse conditions, including neurodegenerative and psychiatric disorders, cancer, and treatment-related side effects, with major implications for health and well-being. Clarifying physiological and pathological processes is thus crucial for understanding their role in daily life. This Special Issue, *Molecular and Cellular Mechanisms of Taste and Smell: From Physiology to Pathology*, welcomes original research and reviews on the molecular and cellular basis of taste and smell in health and disease. Topics include perception mechanisms, effects of pathology, aging, receptor microenvironments, and genetic variability in shaping chemosensory function.

Guest Editor

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Message from the Editor-in-Chief

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