

Special Issue

The Cellular and Molecular Mechanisms of Both Food Bioactives and Pathogens in Living Organisms

Message from the Guest Editors

Current research in molecular nutrition and toxicology aims to investigate the physiological role of nutrients and food bioactives on human health status, directed specifically at molecular and cellular levels. Many nutrients and dietary bioactives exert cellular effects by interacting with signal transduction mechanisms. Similarly, factors that can control the onset of food-borne pathogens involve molecular homeostatic processes. Elucidating the mechanisms that underlie the activities of nutrients, food bioactives and/or pathogens at the molecular level has become recognized as a first principle to understand how physiological function is modified to prevent disease and food-borne illness. This Special Issue invites the submission focused on novel findings in: The molecular–cellular mechanisms that involve gene–nutrient interactions and the prevention of disease; The use of toxins as informative tools with which to study signal transduction and usage as potential therapeutics; The molecular mechanisms involved in the action of food-borne pathogens with emphasis on the detection and prevention of food-related illnesses.

Guest Editors

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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