Special Issue

Molecular Methods in Food Quality and Microbiological Safety

Message from the Guest Editors

Microorganisms serve as an important tool in food processing. How to accurately reveal microbial functions in food processing and detect food pathogens is therefore an important issue in food processing. The development of molecular methods provides important tools for detecting food pathogens or revealing the dynamic changing and possible metabolic mechanisms of microorganisms in food processing. For example, omics technologies (e.g., genomics, transcriptomics and metabolomics) provide useful tools for analyzing the correlation between microbial metabolism and flavor formation in complex microbial fermentation ecosystems. The development of specific molecular detection technologies, such as nucleic acid detection methods, offers a fast and convenient way for detecting target microorganisms in food processing. This Special Issue mainly includes recent studies on the molecular mechanisms of the microbial transformation of raw materials and the generation of flavor substances in food processing, and new methods or technologies for accurately detecting specific microorganisms in the food processing context.

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Message from the Editor-in-Chief

Foods (ISSN 2304-8158) is an open access and peer reviewed scientific journal that publishes original articles, critical reviews, case reports, and short communications on food science. Articles are released monthly online, with unlimited free access. Currently, Foods has been indexed by the Science Citation Index Expanded (SCIE - Web of Science), PubMed, and Scopus. Our aim is to encourage scientists, researchers, and other food professionals to publish their experimental and theoretical results as much detail as possible. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global food science community.

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