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Application of Mass Spectrometry-Based Omics and Chemometrics in Food

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Message from the Guest Editors

Dear Colleagues,

Mass spectrometry (MS)-based omics, which includes, among other fields of study, the areas of proteomics, metabolomics, and lipidomics, enables the simultaneous identification and quantification of diverse molecular components within food matrices. It also aids in accurately identifying biomarkers related to quality, safety, authenticity, processing or storage conditions, nutritional value, physicochemical properties, bioactivity, and more. To extract relevant chemical information from the extensive datasets generated in MS-based omics, the application of chemometrics becomes essential. This involves data pre-processing, deconvolution, peak peaking, feature identification, statistical analysis, multivariate data analysis, pattern recognition, classification, predictive modeling, etc., facilitating synergies with other artificial intelligence disciplines, such as machine learning.

This Special Issue aims to summarize novel applications of MS-based omics and chemometrics in food science and technology and welcomes both research articles and reviews.



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Special Issue



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Message from the Editor-in-Chief

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