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Exploring the OMICS Platforms in Food Analysis

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Message from the Guest Editors

The OMICS technologies (namely metabolomics, lipidomics, proteomics and genomics) have emerged as self-standing research fields relying on well-established analytical methods, such as mass spectrometry techniques (GC-MS and LC-MS/MS), in addition to spectroscopic approaches based on NMR (^1H ; ^{13}C), IR and sensor technologies, to better characterize food matrices, identifying their components and defining nutritional properties. This comprehensive strategy, based on the integration of foodomic platforms, combined with high-resolution analytical approaches and data processing, can help us to elucidate some critical issues in food analysis related with food safety and quality. In turn, this will progress our understanding of the biochemical, molecular and cellular mechanisms related with the health benefits of bioactive food components.

This Special Issue aims to attract contributions on all aspects of the food science, food chemistry and food analysis supported by different OMICS platforms. There is still the challenge to further explore food authentication and adulteration in addition to food safety and nutrition issues based on different high throughput analytical methodologies.



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Special Issue



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Message from the Editor-in-Chief

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