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Foodomics Approaches—Technologies and Their Applications

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Message from the Guest Editors

Foodomics is a comprehensive, high-throughput *tool facilitating* food science to improve human nutrition. This new approach to food and nutrition studies the food domain as a whole, alongside the nutrition domain, achieving the main objective of optimizing human health and well-being. Thus, it provides valuable insights into food safety, quality control, and authenticity, enabling better regulatory practices and ensuring consumer trust. In recent years, the applications of foodomics span the food system, from production, processing, distribution, and storage (food authenticity, traceability, and safety) to consumption, including dietary guidelines and the emerging field of precision nutrition. Specifically, NMR-based and MS-based metabolomic approaches have been applied to study food at the molecular level and advance nutritional food research by controlling food quality and safety, identifying health-promoting food constituents and investigating the impact of dietary patterns in relation to human health.



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Special Issue



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Message from the Editor-in-Chief

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