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Maillard Reaction: New Knowledge in Process Contaminants in Foods and Effects on Biological Systems

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Message from the Guest Editors

The formation of chemical contaminants associated with the development of the Maillard reaction during food processing has aroused great interest in recent decades, being the object of study of numerous investigations. Despite the advances, many tasks remain to be done concerning the food matrix effects on the formation of Maillard-derived compounds and mitigation strategies, their metabolism and biotransformation, the elucidation of the chemical structures of many of them, and the relationship with specific toxicological actions or the development of reliable and standardized chromatographic methods for analysis in foods that allow estimation of the exposure through diet and its associated risk.

This Special Issue is open to contributions aimed at exploring recent advances on these chemical process contaminants in foods. The Issue's scope includes novel insights into their chemistry of formation and elimination, effective mitigation strategies, new analytical techniques, the risk/benefit approach, and exposure assessment, in order to enhance our understanding of these compounds and their dietary exposure.



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Special Issue



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Message from the Editor-in-Chief

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