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Innovative Application of Mass Spectrometry in Food Analysis

Guest Editors:

Prof. Dr. Angela Amoresano

Department of Chemical Sciences, Federico II University, Via Cintia 6, 80126 Naples, Italy

Dr. Gabriella Pinto

Department of Chemical Sciences, University of Naples Federico II, 80138 Naples, Italy

Deadline for manuscript submissions:

closed (20 March 2022)

Message from the Guest Editors

Dear Colleagues,

The multiple aspects of food science stimulate researchers to find new analytical solutions to control the quality of raw materials, process intermediates, or of the final product. What is eaten is of crucial importance due to the nutritional implications as an expression of food fate triggering individual body response. In this context, particular focus is placed on bioactive compounds of various chemical structures extracted from foods for nutraceuticals purposes. In this context, the reuse of industrial wastes has considerable potential to enhance these process by-products in agreement with the current priority outlined by circular economy principles. From an analytical perspective, the protocols for biomolecules extraction are crucial to decrease the matrix complexity, but they need to be coupled with an instrumental apparatus for their detection. The recent progress in mass spectrometry (MS)-based methods offers the opportunity to investigate multiple aspects of food science. The increase of sensitivity and specificity of new-generation MS makes this approach highly versatile to be extended to any food matrices, even for innovative applications.



mdpi.com/si/82020

Special Issue



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Editor-in-Chief

Prof. Dr. Arun K. Bhunia

1. Department of Food Science,
Purdue University, West
Lafayette, IN, USA

2. Department of Comparative
Pathobiology (Courtesy), Purdue
University, West Lafayette, IN,
USA

Message from the Editor-in-Chief

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Foods Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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