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Exploring the OMICS Platforms in Food Analysis

Guest Editors:

Prof. Dr. José Sousa Câmara
CQM - Centro de Química da Madeira, Faculty of Exact Sciences and Engineering, University of Madeira, Funchal, Portugal

Dr. Rosa Perestrelo
CQM—Centro de Química da Madeira, Universidade da Madeira, Campus da Penteada, Funchal, Portugal

Dr. Jorge Pereira
CQM – Centro de Químcia da Madeira, Universidade da Madeira, 9000 Funchal, Portugal

Deadline for manuscript submissions:
closed (31 January 2020)

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; 13C), 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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Editor-in-Chief

Prof. Dr. Thomas J. Schmidt
Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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Contact Us

Molecules Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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