

## Special Issue

# Exploring the OMICS Platforms in Food Analysis

### 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 ( $^1\text{H}$ ;  $^{13}\text{C}$ ), 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.

---

### Guest Editors

Prof. Dr. José Sousa Câmara

Dr. Rosa Perestrelo

Dr. Jorge Pereira

---

### Deadline for manuscript submissions

closed (31 January 2020)



## Molecules

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.2  
CiteScore 7.4  
Indexed in PubMed



[mdpi.com/si/20001](https://mdpi.com/si/20001)

*Molecules*

MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[molecules@mdpi.com](mailto:molecules@mdpi.com)

[mdpi.com/journal/  
molecules](https://mdpi.com/journal/molecules/)





# Molecules

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.2  
CiteScore 7.4  
Indexed in PubMed



[mdpi.com/journal/  
molecules](https://mdpi.com/journal/molecules)



## About the Journal

### 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.

---

### Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

---

### Author Benefits

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Reaxys, CaPlus / SciFinder, MarinLit, AGRIS, and other databases.

#### Journal Rank:

JCR - Q2 (Chemistry, Multidisciplinary) / CiteScore - Q1 (Chemistry (miscellaneous))

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.1 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the first half of 2024).