

Metabolomics Application for Food Authentication and Quality Assessment

Guest Editors:

Dr. Sastia Prama Putri

Department of Biotechnology,
Graduate School of Engineering,
Osaka University, 2-1
Yamadaoka, Suita, Osaka 565-
0871, Japan

Prof. Dr. Eiichiro Fukusaki

Department of Biotechnology,
Graduate School of Engineering,
Osaka University, Suita, Japan

Prof. Dr. Shuichi Shimma

Department of Biotechnology,
Graduate School of Engineering,
Osaka University, Osaka 565-
0871, Japan

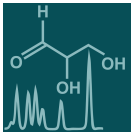
Deadline for manuscript
submissions:
closed (28 February 2020)

Message from the Guest Editors

In recent years, concerns regarding the safety, quality, and authenticity of food and valuable crops have become the major challenge in the food industry. At present, quality evaluation is commonly performed on the basis of human sensory perception; however, this method tends to be subjective, laborious, and challenging. The exhaustive profiling of metabolites is an advantageous feature for the quality assessment and authentication of agricultural and food products. Metabolites can be directly connected with the phenotype, which is sensitively affected by any type of perturbation or stress. Therefore, metabolomics technologies also allow the investigation of the effect of various post-harvest treatments and food production processes on food quality.

This Special Issue will include articles and reviews about different aspects of food quality, food authentication, as well as discrimination of food based on origin, cultivar, and species. Investigations of the effects of genotype, post-harvest treatments, environmental conditions, and their interactions on metabolite profiles are within the scope of this Special Issue.





an Open Access Journal by MDPI

Editor-in-Chief

Dr. Amedeo Lonardo

1. Formerly Director of the Simple Operating Unit "Metabolic Syndrome", Azienda Ospedaliero-Universitaria, 41126 Modena, Italy
2. Formerly Professor of Internal Medicine, School of Specialization of Allergology and Clinical Immunology, University of Modena and Reggio Emilia, 41121 Modena, Italy

Message from the Editor-in-Chief

The metabolome is the result of the combined effects of genetic and environmental influences on metabolic processes. Metabolomic studies can provide a global view of metabolism and thereby improve our understanding of the underlying biology. Advances in metabolomic technologies have shown utility for elucidating mechanisms which underlie fundamental biological processes including disease pathology. *Metabolites* is proud to be part of the development of metabolomics and we look forward to working with many of you to publish high quality metabolomic studies.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (Biochemistry and Molecular Biology) / CiteScore - Q2 (Endocrinology, Diabetes and Metabolism)

Contact Us

Metabolites Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/metabolites
metabolites@mdpi.com
[X@MetabolitesMDPI](https://twitter.com/MetabolitesMDPI)