

Special Issue

Polyphenols and Foods: Authentication, Analysis and Characterization. Antioxidant and Antimicrobial Activity

Message from the Guest Editors

In this special issue extraction and isolation of polyphenols by conventional and high energy techniques such as ultrasound and microwave assisted will be discussed. Additionally, current trends in mass spectrometry (multiple quadrupole (LC-MSn), time of flight (QTOF) LTQ-Orbitrap), metabolomic analyses by QTOF, LC-LTQ-Orbitrap-MS. LTQ-Orbitrap, with two-stage mass analysis (MS/MS) and multi-stage mass analysis (MSn), GC-MS after silylation and NMR spectroscopy (i.e., 2D Diffusion Ordered Spectroscopy) for the identification and chemical characterization of polyphenols will be discussed. Metabolomics have been increasingly applied during the last five years to food and plant matrices and have been correlated mainly to fraud and authenticity issues. Last but not least, the antioxidant and antimicrobial (antifungal) activity of naturally occurring polyphenols will be presented.

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Message from the Editor-in-Chief

Foods (ISSN 2304-8158) is an open access and peer reviewed scientific journal that publishes original articles, critical reviews, case reports, and short communications on food science. Articles are released monthly online, with unlimited free access. Currently, *Foods* has been indexed by the Science Citation Index Expanded (SCIE - Web of Science), PubMed, and Scopus. Our aim is to encourage scientists, researchers, and other food professionals to publish their experimental and theoretical results as much detail as possible. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global food science community.

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