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

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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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Dr. Panagiotis Zoumpoulakis

Prof. Dr. Vassilia Sinanoglou

Guest Editors



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Special Issue



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Message from the Editor-in-Chief

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