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Bioactive Phenolic and Polyphenolic Compounds

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Message from the Guest Editor

Phenols and polyphenols are a class of plant secondary metabolites recently drawing a particular interest due to their broad spectrum of pharmacological effects. The identification of these bioactive molecules occurring in food and natural products is a difficult task because of the large number of components and complexity of their structures. From a chemical viewpoint, they can be classified in different groups, i.e., phenolic acids, flavan-3-ols, flavanones, flavones, flavonoids, lignans, and so on. The most common separation techniques used for their determination are capillary electrophoresis, gas chromatography, liquid chromatography, and, lately, supercritical fluid chromatography. Also, the hyphenation of any chromatography technique to mass spectrometry has come to play an influential role by allowing relatively fast tentative identification and accurate quantification of polyphenolic compounds at trace levels in vegetable media.

This Special Issue aims to collect papers dealing with the determination of bioactive phenolic and polyphenolic compounds in food and natural products; in addition, a particular focus on new achievements in the field will be appreciated.

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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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