Special Issue

New Trends in Polyphenols and Health

Message from the Guest Editors

Polyphenols are characterized by the presence of one or more phenolic groups in a chemical structure. Naturally occurring polyphenols are highly diversified and encompass various chemical groups, such as phenolic acids, stilbenes, flavonoids, and lignans, with thousands of members in each group. There have been several in vitro studies covering the health benefits of polyphenols. However, the poor bioavailability and extensive metabolism of these compounds restrict their biological effects in vivo. Moreover, there is a need to study a high number of compounds in panels of structurally related polyphenols in order to allow the establishment of accurate structure-activity relationships, which will favor the choice of the most promising scaffolds regarding each specific disease. Therefore, the main, but not exclusive, topics to be dealt with in this Special Issue are the following:

- Biological activities of different groups of polyphenols;
- Strategies to overcome the poor bioavailability of polyphenols;
- Establishment of structure-activity relationships;
- Validation of new methods to evaluate the beneficial effects of polyphenols on human health.

Guest Editors

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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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