



## Polyphenols for Friendly Handling of Microbial Control

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### Message from the Guest Editors

Phenolic compounds are a diverse group of natural substances composed of one or more hydroxyl groups attached to one or more aromatic or benzene rings. When featuring more than one phenolic unit, they are called polyphenols and their size ranges from elementary compounds to highly polymerized ones. Polyphenols represent one of the most numerous and widely distributed groups of secondary metabolites in the plant kingdom, being responsible for flower coloration among other functionalities.

In recent years, these molecules have gained interest due to their potential uses in clinics, as well as in the cosmetic and food industries. They have been reported to exhibit a wide range of physiological properties, such as being antimicrobial, antioxidant, antiallergenic, anti-inflammatory or cardioprotective.

The worrying increase in antimicrobial resistance generated by the extensive use of antimicrobial drugs has prompted the scientific community to turn to the study of natural substances. The promising reported antimicrobial properties of polyphenols make them good candidates to help to cope with the problem of antimicrobial resistances.





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## Message from the Editor-in-Chief

There are very few fields that attract as much attention as scientific endeavor related to antibiotic discovery, use and preservation. The public, patients, scientists, clinicians, policy-makers, NGOs, governments, and supra-governmental organizations are all focusing intensively on it: all are concerned that we use our existing agents more effectively, and develop and evaluate new interventions in time to face emerging challenges for the benefit of present and future generations. We need every discipline to contribute and collaborate: molecular, microbiological, clinical, epidemiological, geographic, economic, social scientific and policy disciples are all key. *Antibiotics* is a nimble, inclusive and rigorous indexed journal as an enabling platform for all who can contribute to solving the greatest broad concerns of the modern world.

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