

Special Issue

Natural Compounds: A New Strategy to Fight the Spread of Antimicrobial Resistance

Message from the Guest Editor

Antibiotic resistance is one of the biggest threats to global health and food security. The microorganisms adopt many strategies to defend themselves against attack by antimicrobial drugs, including the ability to develop biofilms. The use of natural compounds as well as the identification of new molecules or natural compounds derivatives with antimicrobial and/or antibiofilm activities may contribute to fight the spread of antimicrobial resistance. Natural active compounds and derivatives may be used to treat microbial infections, eradication and prevention, food contamination and preservation, as well as the inhibition and/or eradication of biofilm. These agents could also be a promising starting point for an optimization process carried out by medicinal chemists to understand the structural requirements for these activities. This Special Issue aims to collect research articles and review articles focused on the study of single bioactive natural compounds and their semisynthetic derivatives with improved biological activity or pharmacokinetics showing potent antimicrobial and antibiofilm activities.

Guest Editor

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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