

## 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.

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### Guest Editor

Dr. Gabriella Mincione

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## International Journal of Molecular Sciences

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### Message from the Editor-in-Chief

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