



Plants, Algae and Fungi Extracts: Promising Resources in the Fight against Pathogens

Guest Editors:

Dr. Emanuela Roscetto

Department of Molecular
Medicine and Medical
Biotechnologies, Università degli
Studi di Napoli Federico II,
Naples, Italy

Dr. Claudia Ciniglia

Department of Environmental,
Biological and Pharmaceutical
Sciences and Technologies,
University of Campania Luigi
Vanvitelli, Via Vivaldi 43, 81100
Caserta, Italy

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Message from the Guest Editors

In recent decades, many pathogens involved in human infection have rapidly increased their antibiotic resistance, reducing the effectiveness of therapies. Most of them can form biofilms, and effective drugs are not available to treat these formations. Natural products could represent an efficient solution in discovering and developing new drugs to overcome antimicrobial resistance and treat biofilm-related infections. Extracts from plants, algae, and fungi attract the attention of many researchers for their biological and therapeutic properties. Indeed, the production of secondary metabolites that act as bioactive molecules is part of the evolutionary adaptations of these organisms to improve their survival and reproduction. This Special Issue aims to publish high-quality manuscripts concerning the study of the antimicrobial and anti-biofilm potential of these compounds together with their chemical characterization. Particular interest will be reserved for the studies on the use of natural substances to prevent microbial growth and biofilm formation also through antimicrobial-loaded medical devices and innovative food packaging.





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Editor-in-Chief

Prof. Dr. Nicholas Dixon

School of Chemistry and
Molecular Bioscience, University
of Wollongong, Wollongong, NSW
2522, Australia

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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Antibiotics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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