



an Open Access Journal by MDPI

Antimicrobial and Antioxidant Activities of Natural Compounds and Synthetic Derivatives: Pharmacological Screening and Mechanism of Action

Guest Editors:

Prof. Dr. Elisabetta Buommino

Department of Pharmacy, University of Naples Federico II, 80131 Naples, Italy

Prof. Maria Rosaria Catania

Department of Molecular Medicine and Medical Biotechnologies, University of Naples Federico II, 80131 Naples, Italy

Prof. Dr. Marina DellaGreca

Department of Chemical Sciences, University of Naples Federico II, Complesso Universitario Monte S. Angelo, 80126 Naples, Italy

Message from the Guest Editors

Natural products from plants, fungi and bacteria have been successfully used in the past for their antimicrobial and antioxidant activity. Many bacteria or yeast metabolites have been used as starting chemical skeletons for the generation of semi-synthetic drugs with improved biological activity. However, the search for new compounds with antimicrobial and antioxidant properties remains an area still largely to be explored.

The goal of this Special Issue is the exploration of new compounds of natural origin, but also their analogues of synthesis, to develop new and urgently needed antimicrobial and antioxidant therapies.

Deadline for manuscript submissions: closed (1 October 2021)









an Open Access Journal by MDPI

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 supragovernmental 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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (*Pharmacology & Pharmacy*) / CiteScore - Q1 (*General Pharmacology, Toxicology and Pharmaceutics*)

Contact Us

Antibiotics Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/antibiotics antibiotics@mdpi.com X@antibioticsmdpi