Special Issue

Antibacterial Activity of Plant Extracts and Essential Oils

Message from the Guest Editor

The clinical use of antibiotics, and therefore the effective treatment of bacterial infections, is under considerable threat due to the emergence of bacteria that are resistant to many classes of commonly used antibiotics. Therefore, the development of suitable alternatives to replace or at least to support systemic antibiotic therapy is much needed. Firstly, in terms of plant chemical ecology, it is logical that plants produce antibacterial metabolites as part of their chemical defence strategy to protect themselves against microbes in their environment. Secondly, there are countless examples of plants which are used topically and systemically to treat bacterial infections in the ethnobotanical setting. This Special Issue will be devoted to publish high-quality manuscripts evaluating the antibacterial properties of plant extracts and essential oils together with its chemical characterization. Moreover, studies regarding the anti-biofilm activity and/or the inhibition of quorum sensing mechanisms by plant extracts and essential oils are sepcially encouraged.The emergent approaches to control microbial growth incorporating natural bioactive compounds will be also of interest.

Guest Editor

Dr. Ângelo Luís

RISE-Health, Department of Medical Sciences, Faculty of Health Sciences, University of Beira Interior, Av. Infante D. Henrique, 6200-506 Covilhã, Portugal

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Antibiotics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
antibiotics@mdpi.com

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About the Journal

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.

Editor-in-Chief

Prof. Dr. Nicholas Dixon
School of Chemistry and Molecular Bioscience, University of Wollongong, Wollongong, NSW 2522, Australia

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