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Antimicrobial Activity of Essential Oils and Hydrolates

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Deadline for manuscript submissions:
closed (31 March 2022)

Message from the Guest Editors

Antimicrobial resistance is known to be one of the most complex global health challenges today. Essential oils (EO) and hydrolates (Hys) are, of all natural substances, the best candidates to draw on to combat antibiotic resistance and are therefore considered of great interest nowadays in both scientific and pharmaceutical research. There is still the absence of large-scale efficacy studies to obtain evidence, both in vitro, with standardized, rapid and easy-to-perform methods as diagnostic tests that can be used to start more targeted pharmacological experiments, and in vivo, with randomized clinical trials. Therefore, the main objective of this Special Issue of Microorganisms is to select, in vivo or in vitro, articles on the antimicrobial efficacy of EOs and Hys potentially active in the fight against bacteria, fungi, viruses and parasites potentially dangerous for human, animal and plant health. Articles developed in other contexts will also be welcome, provided that they are aimed at evaluating the anti-microbial action of OEs and/or Hys, and to standardize models of diffusion of OEs in relevant confined environments.

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Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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