

Special Issue

Benefits of Antimicrobial Phytoextracts in the Fight to Foodborne Pathogens

Message from the Guest Editors

Since ancient times, plants with therapeutic properties have secured an important place in healing practices and the treatment of diseases. In developing countries, traditional phytotherapeutic medicine is still a pillar of healthcare today and most health problems rely on natural therapeutic solutions that have local plants as a resource. With the beginning of the post-antibiotic era (Antimicrobial resistance: global report on surveillance. WHO, 2014), the spread of antibiotic resistance even among food pathogens, herbal medicines have been widely re-evaluated and have gained a fundamental role in all global health programs, even those of highly industrialized countries. Compared to chemical preservatives, phytoextracts generally have a broad-spectrum activity, wide availability at low cost, especially if obtained from agri-food industry waste, minimal danger and ecological footprint. Therefore, knowledge about antimicrobial botanical agents, their chemical characterization, the precise mechanism of action, details on efficacy and safety profile can help in the biological control of foodborne pathogens in eco-friendly strategies.

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"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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