

Special Issue

Antibacterial Activity Compounds in Plant-Based Food

Message from the Guest Editors

Natural compounds are secondary metabolites of a pharmacological or toxicological nature, which usually occur in plants in small amounts. Terpenoids, alkaloids, and polyphenolics are among the most important natural compounds that exhibit antimicrobial activity. The increasing incidence of drug-resistant pathogens has drawn the attention of the pharmaceutical and scientific communities towards studies on the potential antimicrobial activity of plant-derived substances, an untapped source of antimicrobial chemotypes, which are used in traditional medicine in different countries. Several phytotherapy manuals have mentioned various medicinal plants for treating infectious diseases as urinary tract infections, gastrointestinal disorders, respiratory disease, and cutaneous infections. This Special Issue will identify and review the latest plant-based natural compounds that have been demonstrated to have antimicrobial activity. The principal goal of the Special Issue is to cover all aspects of chemical relevance, biological activities, and the development of analytical methods for their identification.

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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