

Special Issue

Phytochemicals of Edible Plants: Berry Polyphenols Research, Applications and Health Benefits

Message from the Guest Editors

Berries are valuable sources of bioactive compounds as polyphenols, organic acids, minerals, and vitamins. Berry bioactive compounds, their characterization and utilization in functional foods and clinical assessment of antimicrobial properties for human health are among the major targets of contemporary research. The utilization of antimicrobial activity of berry phenolic compounds as natural antimicrobial agents may offer many opportunities for use in food industry and medicine. The metabolic profiling approaches are highly relevant to study the interface between plant breeding for food and human nutrition. The development of alternative perspectives, by implementing of berry compounds for the prevention and control of infections caused by bacteria resistant to antibiotics will also be very important issue for definite research priorities in the future. The evaluation of small fruit genetic resources for the presence of bioactive compounds and their properties as natural agents is of doubtless significance and will be with great benefit for breeders, food and pharmaceutical industry.

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Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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