

Special Issue

Omics Technologies in Food Bioactives Research

Message from the Guest Editor

Increasing scientific evidence highlights the role of food-related bioactive compounds in the prevention or amelioration of some diseases. In this regard, efficient and sustainable extraction procedures, followed by comprehensive chemical and functional characterization with high-throughput bioanalytical and omics technologies, represent significant methodological advances to scientifically support health claims of new food-related bioactive molecules.

In this regard, the increasingly frequent multi-omics approaches, such as Foodomics, are contributing to deciphering the molecular mechanisms that underlie the beneficial effects of dietary phytochemicals in preventing the initiation and/or development of major pathologies such as cancer and neurodegenerative and cardiovascular diseases, among others.

This Special Issue is a unique opportunity to gather updated state-of-the-art research studying the recovery of bioactive compounds from food and agri-food sources and their bioactive characterization, making use of the latest extraction, bioanalytical, and omics technologies.

Guest Editor

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