

Special Issue

Significance and Applicability of Bioactive Compounds from Plants for Innovative Technologies and Processes

Message from the Guest Editors

Trade and consumers alike require products with high nutritional and health values. Sustainable production to achieve this criteria requires modern and innovative technologies. In the mid-1990s, researchers published the first epidemiological studies indicating that the consumption of secondary plant metabolites, particularly polyphenols, and thus the intake of fruits and vegetables was inversely correlated with the prevention of degenerative human diseases. The protective effect of products from plants may be partly attributed to the antioxidative properties of bioactive compounds. The synthesis of some of these bioactive compounds depends on several exogenous and endogenous factors. These factors can influence the activity of specific enzymes involved in the synthesis of the bioactive compounds. In addition, bioactive compounds could not only be used as factors to enhance the nutritional value of the product, but could also be used in an isolated form as additives for several other products.

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