Special Issue

The Effect of Natural Extracts on Aging and Neurodegenerative Diseases

Message from the Guest Editors

Aging, a progressive physiological degeneration of all physiological functions, is associated with cognitive decline and deficits in the sensory system. The causes of aging include oxidative damage, mitochondrial genome damage, and telomere shortening. In aging, an increase in reactive oxygen and reactive nitrogen species can be observed, and, consequently, a decrease in endogenous defense mechanisms, which are considered potential causes of many neurodegenerative diseases. Natural extracts are amply used for nutritional, nutraceutical, and pharmacological applications. Studies have shown that natural extracts and bioactive compounds (such as anthocyanins, flavonoids, phenylpropanoids, and terpenes, among others) may exert anti-aging, antioxidant, and neuroprotective effects, with positive impacts on human health. Moreover, natural extracts have been proposed as a strategy to compensate chemosensory deficits in older adults.

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Nutrients is an on-line open access journal that was first published in 2009. Nutrients adheres to rigorous peer-review and editorial processes and publishes only high quality manuscripts that address important issues related to the impacts of nutrients on human health. The Impact Factor of Nutrients has risen rapidly since its establishment and it is now ranked in the first quartile of journals publishing in the field of nutrition and dietetics research.

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