

Special Issue

The Role of Micronutrients in Neurodegenerative Disease

Message from the Guest Editor

Micronutrients are essential for numerous brain metabolic, biochemical, and regulatory processes. Several lines of evidence have shown that high levels of homocysteine and low levels of vitamin B12 and folate are associated with an increased risk of developing Alzheimer's disease. Moreover, markers of vitamin B12 status may predict very early CSF biomarker changes in this condition. From an etiological viewpoint, current research data support the idea that certain micronutrients are involved in key steps of the neurodegenerative process via the regulation of pathways involved in oxidative stress (vitamins C and E), energy consumption, and inflammation (vitamin B in homocysteine metabolism), but also neuroendocrine, immunological, metabolic, and cardiovascular systems (flavonoids, polyunsaturated omega-3 fatty acids, and vitamin D) that are critically implicated in the prevention and treatment of neurodegenerative diseases. Papers, reviews, and/or clinical or experimental studies on the role of micronutrients in the preservation of cognitive function and the protection of the onset of neurodegenerative disease will be included.

Guest Editor

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Deadline for manuscript submissions

closed (5 August 2024)



Nutrients

an Open Access Journal
by MDPI

Impact Factor 5.0
CiteScore 9.1
Indexed in PubMed



mdpi.com/si/175710

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Message from the Editorial Board

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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