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The Role of Micronutrients in Neurodegenerative Disease

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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.



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Special Issue



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