



Polyphenols in the Treatment for Neuroinflammation-Induced Neurodegenerative Disease

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Message from the Guest Editors

One of the more promising approaches considers the inhibition of amyloid formation by small-molecule inhibitors; however, multiple failures of clinical therapeutic approaches indicate that the current strategies must be modulated and emphasize the importance of targeting pre-symptomatic signs as oxidative stress and inflammation. Both oxidative stress and neuroinflammation preside over the symptomology of neurodegenerative disorders, and each promotes neurotoxic environments associated with neurodegeneration.

In this scenario, polyphenols represent a promising starting point for new preventive and therapeutic approaches, since they target effectively and simultaneously inflammatory and oxidative pathways, and amyloid aggregation. These molecules have worldwide availability, low cost, and low toxicity. Improved knowledge of these topics is mandatory to promote the use of natural polyphenols well beyond their known antioxidant, antidiabetic, and antilipidemic effects. Increased information in this sense could be exploited to enrich, from a commercial and nutraceutical point of view, the alimentary and healthy value of natural compounds.





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