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Multi-target Drug Treatments for Neurodegenerative Disease

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Message from the Guest Editors

One promising approach considers the inhibition of amyloid formation by small-molecule inhibitors; however, the failure of multiple clinical therapeutic approaches indicates that the current strategies must be modulated and the importance of targeting pre-symptomatic signs, such as oxidative stress and inflammation, must be emphasized. Both oxidative stress and neuroinflammation precede over the symptomology of neurodegenerative disorders, and each promotes a neurotoxic environment associated with neurodegeneration.

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





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