



The Role of Natural and Synthetic Antioxidants in Alzheimer's Disease

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submissions:
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Message from the Guest Editors

Dear Colleagues,

Alzheimer's disease (AD) is a progressive neurodegenerative disorder. Elevated oxidative stress has been revealed as a prominent and early aspect of vulnerable neurons in AD. Exposure to oxidative stress stimulates the accumulation of intracellular reactive oxygen species (ROS), which consecutively triggers cell damage in the form of protein, lipid, and DNA oxidation. Raised ROS levels are also coupled with the elevated accumulation of amyloid- β and the formation of senile plaques—a characteristic feature of the AD brain. Therefore, antioxidant substances are considered potential drug candidates as a treatment or preventive therapy of Alzheimer's disease.

We encourage submissions that detail the following topics: the isolation of natural products and extracts from natural sources; the characterization of their metabolites; the design, synthesis, and structural elucidation of natural product molecules using various chromatographic and spectroscopic techniques; as well as the in vitro and in vivo documentation of their antioxidant, anti-Alzheimer's properties.





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Message from the Editor-in-Chief

The metabolome is the result of the combined effects of genetic and environmental influences on metabolic processes. Metabolomic studies can provide a global view of metabolism and thereby improve our understanding of the underlying biology. Advances in metabolomic technologies have shown utility for elucidating mechanisms which underlie fundamental biological processes including disease pathology. *Metabolites* is proud to be part of the development of metabolomics and we look forward to working with many of you to publish high quality metabolomic studies.

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