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Nutrients and the Risk of Lifestyle-Related Diseases

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Message from the Guest Editor

Dear Colleagues,

Alzheimer's disease (AD) and type 2 diabetes mellitus (T2DM) are chronic health disorders that affect millions of people around the world. The risk for developing T2DM and Alzheimer's disease increases exponentially with age, and having T2DM increases the risk of developing AD. Dietary supplementation of antioxidants, B vitamins, polyphenols, and polyunsaturated fatty acids are beneficial to AD, and consumptions of fish, fruits, vegetables, coffee, and light-to-moderate alcohol reduce the risk of AD. Elevated hydroxynonenal was recently reported to be responsible for hyperglycemia and correlated with HbA1c in both experimental animals and humans, although the precise role of hydroxynonenal in T2DM is not well understood until now. It is likely that both AD and T2DM might occur in response to the exogenous and intrinsic hydroxynonenal by the long-standing lysosomal cell death in the corresponding organ. The Special Issue aims at elucidating the common mechanism underlying AD and T2DM, particularly focusing on the detrimental effects of nutrients.



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Special Issue



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