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Signaling Pathway Cross Talk in Alzheimer's Disease and Cerebrovascular Disease

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Message from the Guest Editor

Dear colleagues,

Alzheimer's disease (AD) and cerebrovascular disease (CVD) are the two most prevalent causes of dementia. However, the molecular basis of AD and vascular dementia (VaD) remains unclear. Furthermore, effective treatments for these debilitating neurological disorders are not yet available. In the last three decades, the interaction(s) between CVD and AD have garnered considerable interest. Mixed AD/CVD pathology is commonly seen in patients with clinically diagnosed AD dementia. Combined vascular and AD pathology is the leading cause of dementia in the very old, and there is a debate on whether this is due to an additive effect of both pathologies on cognitive impairment, and whether it represents an interaction between the two pathologies. This Special Issue explores the association and interaction between CVD and AD pathology/dementia from the perspectives of plasma lipid and protein profiles, imaging biomarkers, post-mortem pathology, and investigations using animal models. In addition, studies on plasma biomarkers of AD and VaD and their independent contribution to dementia and cognitive decline will also be accepted.



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