Special Issue

Clinical Application of Neuroimaging in Cerebral Vascular Diseases

Message from the Guest Editors

This Special Issue aims to advance our comprehensive understanding of the physiology and pathology of CSVD and related diseases, including neurological mechanisms, potential biomarkers and diagnostic techniques, using neuroimaging methods. The topics of interest may include, but are not limited to: 1) Understanding the neural mechanisms of CSVD and its relationship with stroke, cognitive impairment, gait and balance disorders. 2) The structural and functional changes of CSVD, particularly blood–brain barrier dysfunction, neurotransmission abnormalities and neuroinflammation. 3) Developing imaging markers to improve early and differential diagnoses. 4) Neuroimaging assessment and prediction of CSVD progression and severity. 5) Evaluating the pharmacological/non-pharmacological interventions and therapeutic efficacy using neuroimaging approaches. 6) Improving neuroimaging techniques and data analysis, such as multimodal approaches and deep learning-based approaches.

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