

Special Issue

The Role of Multimodal Imaging in Assessing the Biology and Staging of Neurodegenerative Disorders

Message from the Guest Editor

The development and validation of fluid and imaging biomarkers for Alzheimer's disease (AD) have changed the view on how patients with suspected dementia of the Alzheimer's type are evaluated and have contributed to the establishment of research criteria for the diagnosis and staging of AD. Neuroimaging tools such as amyloid and tau PET, FDG PET and MR imaging are included as biomarkers for the assessment of A, T and N pathological changes in AD. Recently, 2 biological staging systems for neuronal synucleinopathies (Parkinson's disease—PD; dementia with Lewy bodies—DLB) have been proposed, leveraging the development of assays to detect synuclein pathology and established imaging biomarkers of neurodegeneration. Multimodal imaging with PET and MRI offers the opportunity to detect and measure in vivo different pathological processes. Changes in blood flow, metabolism, protein misfolding and neurodegeneration, but also peripheral markers, can support early diagnosis of AD, PD and DLB and their biological characterization. This Special Issue aims to include the current status and advances in neuroimaging tools for in vivo biological characterization of these disorders.

Guest Editor

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