Special Issue

Applications of Quantitative MRI in Neurodegenerative Disorders and Peripheral Neuropathies

Message from the Guest Editor

Quantitative MRI techniques such as T1 mapping, T2 mapping, T2* mapping, proton density mapping, quantitative susceptibility mapping (QSM), diffusion tensor imaging (DTI), and magnetization transfer imaging (MTI) offer unprecedented insights into the structural and functional alterations associated with these conditions. This Special Issue seeks to showcase studies that utilize these advanced imaging modalities to investigate a range of CNS diseases, including Parkinson's disease, multiple sclerosis, and Alzheimer's disease, as well as PNS diseases such as Charcot–Marie–Tooth disease. Emphasis will be placed on the role of qMRI in detecting neurodegeneration and iron deposition, which are critical factors in many of these disorders.

This Special Issue aims to provide a comprehensive overview of how qMRI can enhance our understanding and management of disorders affecting both the CNS and PNS, with a particular focus on neurodegeneration and iron deposition, ultimately contributing to improved patient outcomes.

Guest Editor

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