

Special Issue

Clinical Applications and Potential of Magnetic Resonance Spectroscopy

Message from the Guest Editor

Magnetic resonance spectroscopy has been increasingly used as a non-invasive modality in clinical applications. This Special Issue will collect recent development of MRS and MRSI in clinical research including, but not limited to, the assessment of ATP energy metabolism, redox state, (de)myelination, neurodegeneration, inflammation, ischemia and oxygenation, cellularity and atrophy, fat infiltration, mineral metabolism, kinetic and dynamic processes, metabolic pathways and intermediates, organ preservation and transplant viability, sex hormonal effects, exercise and fatigue, muscle fiber typing, transmembrane processes, membrane fluidity, mitochondrial (dys)function, and biomarkers of various diseases. Major body organs include brain, heart, liver, kidney, prostate, bone marrow, subcutaneous tissue, and skeletal muscle. Original work on ^{31}P and ^{13}C MRS and collaborative contributions from multiple institutes and using different modalities are especially encouraged.

Guest Editor

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