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white matter disorders, thanks to the superb soft tissue contrast in MRI which allows gray matter, unmyelinated, and myelinated white matter to be distinguished and their respective disorders identified.

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resonance imaging method which can be used to visualize myelination in the brain and spinal cord in vivo. This review presents an overview of myelin water imaging data acquisition and analysis, post-mortem validation work, findings in both animal and human studies and a brief discussion about other MR techniques purported to provide in vivo

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This is the third edition of Magnetic Resonance of Myelination and Myelin Disorders, a standard text in the field. The book has been extensively revised and expanded to do justice to the rapid advances in MR technology, molecular biochemistry, and genetics and the discovery of new disease entities with prominent white matter involvement.



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disorders affecting the central nervous system. This is particularly true for gray and white ...

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Quantitative MT (qMT) studies investigating F, which is partially made up of myelin, and the MT rate (k for),

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have found both measures to be decreased in MS lesions, 26, 46, 164, 165 attributed to changes in myelination. Magnetic resonance spectroscopy has detected a strong lipid peak in acute lesions attributed to myelin breakdown product ...

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**MRI-based myelin water imaging: A  
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Magnetic resonance imaging (MRI) is essential for multiple sclerosis diagnostics but is conventionally not specific to demyelination. Myelin imaging is often hampered by long scanning times, complex postprocessing, or lack of clinical approval.

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