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Magnetic Resonance of Myelin, Myelination, and Myelin ...

Two colleagues were particularly helpful ledge of genetic defects, biochemical abnormalities, and provided us with essential and unpublished f- and cellular processes underlying myelin disorders. ures: our friends Susan Blaser,from the Hospital for This immense progress has prompted us to embark Sick Children in Toronto,and Zoltán Patay,from the upon the enormous task of rewriting the ...

Magnetic Resonance of Myelination and Myelin Disorders ...

Introduction. Magnetic resonance imaging (MRI) is now considered the imaging modality of choice for the majority of

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disorders affecting the central nervous system. This is particularly true for gray and 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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Proton magnetic resonance spectroscopy (MRS) is an excellent technique for detecting active demyelination; however, it is not capable of assessing intact myelin. Diffusion tensor imaging (DTI) measures the kinetics of water molecules.

Magnetic resonance imaging of myelin - Springer
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claule@physics.ubc.ca

Magnetic resonance imaging of myelin.

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Magnetic Resonance of Myelination and Myelin Disorders on ...

Abstract White matter myelination is essential to postnatal neurologic maturation and can be accurately evaluated by magnetic resonance imaging (MRI). Accordingly, MRI pulse sequences should be optimized for detection of myelin in young children. T1-weighted images are most useful during the first year of life.

Assessment of Normal Myelination with Magnetic Resonance ...

To date, magnetic resonance imaging (MRI) has been the

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primary tool for diagnosing and monitoring the progression of myelin diseases. 6, 7 Unfortunately, any change in signal intensity on a dual echo T 2-weighted sequence reflects a change in tissue water content, which is a non-specific measure of the overall changes in macroscopic tissue injury ranging from edema to inflammation, demyelination, and axonal loss. 8 As a result, the use of MRI as a primary measure of disease activity still ...

A Myelin-Specific Contrast Agent for Magnetic Resonance ...
Proceedings from Imaging of myelin in ferret brain using magnetic resonance multi-component T2 and qMT. Imaging myelin: formation, destruction and repair. Vancouver, BC, 2006:P39.

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Interpretation: Rapid Estimation of Myelin for Diagnostic Imaging provides robust myelin quantification that detects diffuse demyelination in normal-appearing tissue in multiple sclerosis, which is associated with both cognitive and clinical disability. Because the technique is fast, with automatic postprocessing and US Food and Drug Administration/CE clinical approval, it can be a clinically feasible biomarker that may be suitable to monitor myelin dynamics and evaluate treatments aiming at ...

Validation of Rapid Magnetic Resonance Myelin Imaging in ...
Early magnetic resonance imaging of at-risk infants, while

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frequently showing increased T1-signal in these regions, may give false-positive findings due to the presence of myelin in these structures. Advanced magnetic resonance imaging including diffusion-weighted imaging, magnetic resonance spectroscopy, and diffusion tensor imaging with tractography may shed new insights into the pathogenesis of bilirubin-induced brain injury and the neural basis of long-term disability in infants and ...

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