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Magnetic Resonance of Myelination and Myelin Disorders

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This progress prompted the editors of Magnetic Resonance of Myelination to create the third edition of this book. The editors have tried to cover most white matter disorders and to present a collection of images illustrating the field in an extensive fashion.

Magnetic Resonance of Myelination and Myelin Disorders

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Magnetic Resonance of Myelination and Myelin Disorders. Marjo S. van der Knaap & Jaap Valk. \$429.99; \$429.99; Publisher Description. Our thanks go to our colleagues at the VU University Medical Center and to those in other hospitals Reading through the prefaces of the two previous

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

Magnetic Resonance of Myelination and Myelin Disorders Marjo S. van der Knaap, Jaap Valk Limited preview - 2005. References to this book. MRI of the Neonatal Brain Mary A. Rutherford No

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Assessment of Normal Myelination with Magnetic Resonance Imaging Kirk M. Welker, M.D.1 Alice Patton, M.D.1 1Division of Neuroradiology, Department of Radiology, Mayo Clinic,

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Mapping infant brain myelination with magnetic resonance imaging J Neurosci. 2011 Jan 12;31(2):784-91. doi: 10.1523/JNEUROSCI.2106-10.2011. Authors Sean C L Deoni 1 , Evelyne Mercure, Anna Blasi, David Gasston, Alex Thomson, Mark Johnson, Steven C R Williams, Declan G M Murphy. Affiliation 1 Centre for ...

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Mapping infant brain myelination with magnetic resonance ...

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Mapping Infant Brain Myelination with Magnetic Resonance ...

Myelin water imaging is a magnetic 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 myelin content.

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Magnetic Resonance of Myelination and Myelin Disorders

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

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attributed to myelin breakdown product ...

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MRI-based myelin water imaging: A technical review ...

Magnetic Resonance Imaging of Myelin Cornelia Laule,* Irene M. Vavasour,* Shannon H. Kolind,† David K. B. Li,* Tony L. Traboulsee,‡ G. R. Wayne Moore,§ and Alex L. MacKay*†
*Department of Radiology, †Department of Physics and Astronomy, ‡Department of Medicine, §Department of Pathology & Laboratory and Medicine (Neuropathology), University of

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Magnetic resonance imaging of myelin - Springer

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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