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## **Magnetic Resonance Of Myelination And**

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essential and unpublished f- and cellular  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

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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.

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Magnetic Resonance of Myelination and  
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& Jaap Valk. \$429.99; \$429.99; Publisher  
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colleagues at the VU Univer- Preface to  
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to those in other hospitals Reading  
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edi- who referred their patients ...

## Myelination Myelin Disorders **Magnetic Resonance of Myelination and Myelin Disorders on ...**

Magnetic resonance imaging (MRI) is now considered the imaging modality of choice for the majority of disorders affecting the central nervous system. This is particularly true for gray and

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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.

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

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Magnetic Resonance of Myelination and  
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Jaap Valk Limited preview - 2005.

References to this book. MRI of the

Neonatal Brain Mary A. Rutherford No  
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Magnetic Resonance Imaging Kirk M.  
Welker, M.D.<sup>1</sup> Alice Patton, M.D.<sup>1</sup>  
<sup>1</sup>Division of Neuroradiology, Department  
of Radiology, Mayo Clinic,

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resonance imaging (MRI) is now  
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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

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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 ...**

Mapping Infant Brain Myelination with Magnetic Resonance Imaging Sean C. L.

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Blasi , 2, 3 David Gasston , 1 Alex  
Thomson , 2 Mark Johnson , 3 Steven C.  
R. Williams , 1 and Declan G. M. Murphy  
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## **Mapping Infant Brain Myelination with Magnetic Resonance ...**

Myelin water imaging is a magnetic

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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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Resonance of Myelin, Myelination, and  
Myelin Disorders. [Jacob Valk; Marjo S  
Knaap] -- 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 ...  
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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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Jongho Lee, Jae-Won Hyun, Jieun Lee,  
Eun-Jung Choi, Hyeong-Geol Shin,  
Kyeongseon Min, Yoonho Nam, Ho Jin  
Kim, Se-Hong Oh, So You Want to Image  
Myelin Using MRI: An Overview and  
Practical Guide for Myelin Water  
Imaging, Journal of Magnetic Resonance  
Imaging, 10.1002/jmri.27059, 0, 0,

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(2020).

**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

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Radiology, †Department of Physics and Astronomy, ‡Department of Medicine, §Department of Pathology & Laboratory and Medicine (Neuropathology), University of British Columbia, Vancouver, BC, V6T ...

## **Magnetic resonance imaging of myelin - Springer**

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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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