

Publications

1. L. Wennberg, J. Mårtensson, L. Langensee, P. C. Sundgren, K. Markenroth Bloch, B. Hansson, *Effects of Ultra-High Field MRI Environment on Cognitive Performance in Healthy Participants*, *Radiography*:**30**, p.95 (2024)
2. N. Spotorno, C. Najac, O. Strandberg, E. Stomrud, D. Van Westen, M. Nilsson, I. Ronen, O. Hansson, *Diffusion Weighted Magnetic Resonance Spectroscopy Revealed Neuronal Specific Microstructural Alterations in Alzheimer's Disease*, *Brain Communications*:**online**, p.fcae026 (2024)
3. B. Hansson, B. Garzón, M. Lövdén, I. M. Björkman-Burtscher, *Decrease of 7T MR Short-Term Effects with Repeated Exposure*, *Neuroradiology*:**online**, (2024)
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5. L. Lindström, P. Goldin, J. Mårtensson, E. Cardeña, *Nonlinear Brain Correlates of Trait Self-Boundarylessness*, *Neuroscience of Consciousness*:**2023**, p.1 (2023)
6. B. Lampinen, F. Szczepankiewicz, J. Lätt, L. Knutsson, J. Mårtensson, I. M. Björkman-Burtscher, D. Van Westen, P. C. Sundgren, F. Ståhlberg, M. Nilsson, *Probing Brain Tissue Microstructure with MRI: Principles, Challenges, and the Role of Multidimensional Diffusion-Relaxation Encoding*, *NeuroImage*:**282**, p.120338 (2023)
7. B. Garzón, G. Helms, H. Olsson, C. Brozzoli, F. Ullén, J. Diedrichsen, M. Lövdén, *Cortical Changes During the Learning of Sequences of Simultaneous Finger Presses*, *Imaging Neuroscience*:**1**, p.1 (2023)
8. S. Emin, E. H. G. Oei, M. Englund, P. Peterson, *Imaging-Based Assessment of Fatty Acid Composition in Human Bone Marrow Adipose Tissue at 7 T: Method Comparison and in Vivo Feasibility*, *Magnetic Resonance in Medicine*:**90**, p.240 (2023)
9. E. Cardeña, L. Lindström, P. Goldin, D. Van Westen, J. Mårtensson, *A Neurophenomenological fMRI Study of a Spontaneous Automatic Writer and a Hypnotic Cohort*, *Brain and Cognition*:**170**, p.106060 (2023)
10. A. Zampeli, B. Hansson, K. M. Bloch, E. Englund, K. Källén, M. C. Strandberg, I. M. Björkman-Burtscher, *Structural Association between Heterotopia and Cortical Lesions Visualised with 7 T MRI in Patients with Focal Epilepsy*, *Seizure*:**101**, p.177 (2022)
11. F. Ventorp, J. Lindahl, D. Van Westen, J. Jensen, J. Björkstrand, D. Lindqvist, *Preliminary Evidence of Efficacy and Target Engagement of Pramipexole in Anhedonic Depression*, *Psychiatric Research & Clinical Practice*:**4**, p.42 (2022)
12. J. Töger, M. Andersen, O. Haglund, T. M. Kylkilahti, I. Lundgaard, K. Markenroth Bloch, *Real-Time Imaging of Respiratory Effects on Cerebrospinal Fluid Flow In small Diameter Passageways*, *Magnetic Resonance in Medicine*:**88**, p.770 (2022)
13. A. Seidemo, R. Wirestam, G. Helms, K. Markenroth Bloch, X. Xu, J. Bengzon, P. C. Sundgren, P. C. M. Van Zijl, L. Knutsson, *Tissue Response Curve Shape Analysis of Dynamic Glucose Enhanced (DGE) and Dynamic Contrast Enhanced (DCE) MRI in Patients with Brain Tumor*, *NMR in Biomedicine*:**36**, p.e4863 (2022)
14. H. Olsson, M. Andersen, M. Kadhim, G. Helms, *MP3RAGE: Simultaneous Mapping of T1 and in Human Brain at 7T*, *Magnetic Resonance in Medicine*:**87**, p.2637 (2022)
15. A. Lundberg, E. Lind, H. Olsson, G. Helms, L. Knutsson, R. Wirestam, *Comparison of MRI Methods for Measuring Whole-Brain Oxygen Extraction Fraction under Different Geometric Conditions at 7T*, *Journal of Neuroimaging*:**32**, p.442 (2022)
16. L. Langensee, J. Mårtensson, A. Jönsen, K. Zervides, A. Bengtsson, J. Nystedt, B. Cannerfelt, P. Nilsson, P. Mannfolk, J. Lätt, T. Rumetshofer, P. C. Sundgren, *Cognitive Performance in Systemic Lupus*

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17. E. N. Kornaropoulos, S. Winzeck, T. Rumetshofer, A. Wikstrom, L. Knutsson, M. M. Correia, P. C. Sundgren, M. Nilsson, *Sensitivity of Diffusion MRI to White Matter Pathology: Influence of Diffusion Protocol, Magnetic Field Strength, and Processing Pipeline in Systemic Lupus Erythematosus*, Frontiers in neurology:**13**, p.837385 (2022)
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 27. M. Novén, A. Schremm, M. Horne, M. Roll, *Cortical Thickness and Surface Area of Left Anterior Temporal Areas Affects Processing of Phonological Cues to Morphosyntax*, Brain Research:**1750**, p.147150 (2021)
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48. L. Knutsson, A. Seidemo, A. Rydhög, K. Markenroth Bloch, K. R., M. Andersen, S. P. C., R. Wirestam, G. Helms, P. C. M. Van Zijl, X. Xu, *Arterial Input Functions and Tissue Response Curves in Dynamic Glucose- Enhanced (DGE) Imaging: Comparison between Glucocest and Blood Glucose Sampling in Humans*, *Tomography*:**4**, p.164 (2018)
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Book chapters and Book editions

51. T. Rumetshofer, E. Papadaki, A. Jönsen, P. C. Sundgren, *Lupus*, Ch. 17 in *Imaging Neuroinflammation (2023)*, eds. C. Laule and J. D. Port **Academic Press**
52. K. Markenroth Bloch, M. Guye, B. A. Poser, *Ultra-High Field Neuro MRI*, (2023)
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Popular science contributions

57. J. Mauritsson, K. Markenroth Bloch, M. Novén, M. Petersson, *Magneter, MR-Kameror Och Meditation - Ett Kul Sätt Att Popularisera Och Nå Ut Med Fysik*, (2023)
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PhD Theses

62. A. Seidemo, *Dynamic Glucose Enhanced Chemical Exchange Saturation Transfer MRI : Optimization of Methodology and Characterization of Cerebral Transport Kinetics*, (2023), **PhD**, Medical Radiation Physics, Lund University Lund
63. L. Lindström, *Experience without Self: Phenomenology and Neural Correlates of Selflessness*, (2023), **PhD**, Department of Psychology, Lund University
64. M. Truong, *Advanced Vascular Imaging. From Wall to Plaque*, (2021), **PhD**, Diagnostic Radiology, the faculty of Medicine, Lund University

65. T. Rumetshofer, *Functional Connectivity Analysis in the Human Brain Using Ultra-High Field MRI*, (2021), **MSc**, Department of Biology, Lund University
66. H. Olsson, *Gradient Echo-Based Quantitative MRI of Human Brain at 7T: Mapping of T1, MT Saturation and Local Flip Angle*, (2021), **PhD**, Medical Radiation physics, Lund University
67. M. Novén, *Brain Anatomical Correlates of Perceptual Phonological Proficiency and Language Learning Aptitude*, (2021), **PhD**, Centre for Languages and Literature, The Faculties of Humanities and Theology, Lund University
68. B. Lampinen, *Probing Brain Microstructure with Multidimensional Diffusion MRI: Encoding, Interpretation, and the Role of Exchange*, (2021), **PhD**, Medical Radiation physics, Lund University
69. B. Hansson, *Safety and Health Effects in High and Ultra-High Field MR*, (2020), **PhD**, Faculty of medicine, Department of clinical sciences, Lund University