

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*:**6**, 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*:**66**, p.567 (2024)
4. A. Gard, E. N. Kornaropoulos, M. Portnova-Westersson, I. Rorsman, K. Blennow, H. Zetterberg, Y. Tegner, A. De Maio, K. Markenroth Bloch, I. Björkman-Burtscher, H. Pessah-Rasmussen, M. Nilsson, N. Marklund, *Widespread White Matter Abnormalities in Concussed Athletes Detected by 7T Diffusion MRI*, *J. Neurotrauma*:**41**, p.1533 (2024)
5. B. Ramgren, J. Wasselius, B. Hansson, K. Markenroth Bloch, *New Devices and Technology: 7T Magnetic Resonance Angiographic Imaging of Basilar Artery Perforator Aneurysms – Initial Experience of a Non-Invasive Alternative to DSA*, *Interv. Neuroradiol.*:**online**, (2023)
6. M. Nilsson, F. Lennartsson, H. M. Öhnell, L. Gränse, L. Jacobson, *Case Report: Bilateral Damage to the Immature Optic Radiation and Secondary Massive Loss of Retinal Ganglion Cells Causing Tunnel Vision*, *Front. Neurosci.*:**17**, (2023)
7. L. Lindström, P. Goldin, J. Mårtensson, E. Cardeña, *Nonlinear Brain Correlates of Trait Self-Boundarylessness*, *Neurosci. Consc.*:**2023**, p.1 (2023)
8. 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)
9. 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)
10. 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*, *Magn. Reson. Med.*:**90**, p.240 (2023)
11. 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 Cognition*:**170**, p.106060 (2023)
12. 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)
13. 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*, *Psych Res Clin Pract*:**4**, p.42 (2022)
14. 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*, *Magn. Reson. Med.*:**88**, p.770 (2022)
15. 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 Biomed.*:**36**, p.e4863 (2022)

16. H. Olsson, M. Andersen, M. Kadhim, G. Helms, *MP3RAGE: Simultaneous Mapping of T1 and in Human Brain at 7T*, *Magn. Reson. Med.*:**87**, p.2637 (2022)
17. 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*, *J. Neuroimaging*:**32**, p.442 (2022)
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20. B. Hansson, M. Simic, J. Olsrud, K. Markenroth Bloch, T. Owman, P. C. Sundgren, I. M. Björkman-Burtscher, *MR- Safety: Evaluation of Compliance with Screening Routines Using a Structured Screening Interview*, *J. Patient Saf. Risk Managem.*:**27**, p.76 (2022)
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22. A. Glans, J. Wilén, L. Lindgren, I. M. Björkman-Burtscher, B. Hansson, *Health Effects Related to Exposure of Static Magnetic Fields and Acoustic Noise—Comparison between MR and CT Radiographers*, *Eur. Radiol.*:**32**, p.7896 (2022)
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Book chapters and book editions

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Popular science contributions

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

64. A. Glans, *Safe and Sound: Managing Acoustic Noise, Gradient Field Applications, and Static Magnetic Field Exposure in MR – a Radiography Perspective*, (2024), **PhD**, Institutionen för omvårdnad, Umeå University Umeå

65. A. Gard, *Sport-Related Concussion: Neuroimaging, Biomarker, Vestibular and Neuropsychological Studies*, (2024), **PhD**, Department of Clinical Sciences, Lund, Lund University
66. 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
67. L. Lindström, *Experience without Self: Phenomenology and Neural Correlates of Selflessness*, (2023), **PhD**, Department of Psychology, Lund University
68. M. Truong, *Advanced Vascular Imaging. From Wall to Plaque*, (2021), **PhD**, Diagnostic Radiology, the faculty of Medicine, Lund University
69. T. Rumetshofer, *Functional Connectivity Analysis in the Human Brain Using Ultra-High Field MRI*, (2021), **MSc**, Department of Biology, Lund University
70. 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
71. 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
72. B. Lampinen, *Probing Brain Microstructure with Multidimensional Diffusion MRI: Encoding, Interpretation, and the Role of Exchange*, (2021), **PhD**, Medical Radiation physics, Lund University
73. B. Hansson, *Safety and Health Effects in High and Ultra-High Field MR*, (2020), **PhD**, Faculty of medicine, Department of clinical sciences, Lund University