

Conference contributions

1. L. Wennberg, B. Hansson, J. Mårtensson, *Cognitive Performance after Ultra-High Field MRI Scanning in Healthy Participants.*, European Congress of Radiology p. (2023)
2. J. Töger, M. Andersen, O. Haglund, T. Kylkilahti, I. Lundgaard, K. Markenroth Bloch, *High Spatial Resolution Real-Time Imaging of Respiratory Effects on Cerebrospinal Fluid Flow at 7T*, 31st ISMRM p. (2022)
3. A. Seidemo, R. Wirestam, G. Helms, K. Markenroth Bloch, X. Xu, J. Bengzon, P. C. Sundgren, P. C. M. Van Zijl, L. Knutsson, *Curve Shape Analysis of Dynamic Glucose Enhanced (DGE) and Dynamic Contrast Enhanced (DCE) MRI in Patients with Brain Tumor*, 31st ISMRM p. (2022)
4. B. Runderkamp, M. Caan, W. Van Der Zwaag, R. Hemke, M. Maas, M. Andersen, G. J. Strijkers, K. Markenroth Bloch, A. J. Nederveen, *Accelerated High-Resolution 3D Isotropic Wrist MRI at 7 Tesla: Compressed Sensing Vs. SENSE*, 31st ISMRM p. (2022)
5. B. Runderkamp, M. Caan, W. Van Der Zwaag, R. Hemke, M. Maas, M. Andersen, G. J. Strijkers, K. Markenroth Bloch, A. J. Nederveen, *Accelerated High-Resolution 3D Isotropic Wrist MRI at 7 Tesla: Compressed Sensing Vs. SENSE*, ISMRM UHF Workshop p. (2022)
6. H. Olsson, G. Helms, *Mapping the Inversion Efficiency (Finv): Comparison between Adiabatic Pulses for Use in MP2RAGE-Based T1-Mapping*, 31st ISMRM p. (2022)
7. N. Marklund, *White Matter Abnormalities on 7T Diffusion MRI in Athletes with Persistent Postconcussive Symptoms* American Association of Neurological Surgeons p. (2022)
8. N. Marklund, *Neuroimaging and Functional Testing of Athletes with Persistent Post-Concussion Symptoms*, 15th International Neurotrauma Symposium p. (2022)
9. T. Kylkilahti, M. Wiktor, J. Töger, K. Markenroth Bloch, I. Lundgaard, *Caffeine Acutely Reduces Aqueductal CSF Flow in Humans*, ISMRM Nordic Chapter meeting p. (2022)
10. T. Kylkilahti, M. Wiktor, J. Töger, K. Markenroth Bloch, I. Lundgaard, *Caffeine Acutely Reduces Aqueductal CSF Flow in Humans*, 31st ISMRM p. (2022)
11. S. Götestrand, *Wrist Imaging at 7T*, Röntgenveckan (2022) Göteborg: oral
12. A. Glans, J. Wilén, L. Lindgren, I. Björkman-Burscher, B. Hansson, *Health Complaints Subjectively Associated with Static Magnetic Field and Acoustic Noise Exposure among MR Personnel in Sweden*, 32st ISMRT p. (2022)
13. A. Gard, E. Kornaropoulos, M. Portonova Wernersson, I. Rorsman, Y. Tegner, A. De Maio, K. Markenroth Bloch, I. Björkman-Burtscher, H. Pessah-Rasmussen, M. Nilsson, N. Marklund, *White Matter Abnormalities on 7T Diffusion MRI in Athletes with Persistent Postconcussive Symptoms* 15th International Neurotrauma Symposium p. (2022)
14. H. Olsson, M. Andersen, M. Kadhim, G. Helms, *Simultaneous 3D T1 and B1+ Mapping at 7T Using MPRAGE with Multiple Volumes and Driven Equilibrium (DE)* 29th ISMRM p. (2021)
15. A. Fingerhut, M. Roll, *Primary Auditory Cortex's Vowel Representation*, Proceedings of Fonetik 2021 p. (2021)
16. S. Emin, J. Svensson, M. Englund, P. Peterson, *Fatty Acid Composition Quantification in Bone Marrow at 7 T: Method Comparison and In Vivo Feasibility*, 29th ISMRM p. (2021)
17. A. Zampeli, I. Björkman-Burtscher, K. Källén, B. Hansson, K. Markenroth Bloch, M. Compagno Strandberg, *Morphological 7T MRI of Malformations of Cortical Development in Patients with Focal Epilepsy*, 14th European Congress on Epileptology p. (2020)
18. N. Spotorno, M. Nilsson, B. Hansson, F. Andersson, A. Leuzy, D. Van Westen, O. Hansson, I. Ronen, *Diffusion of Naa as a Marker for Tau Pathology in Alzheimer's Disease - a Combined Diffusion Weighted MRS and Positron Emission Tomography Study*, 28th ISMRM p. (2020)
19. T. Rumetshofer, P. C. Sundgren, *A Machine Learning Approach for White Matter Lesion Pattern Clustering in Systemic Lupus Erythematosus.*, ECR p. (2020)

20. M. Novén, M. Horne, M. Nilsson, M. Roll, *Learning Swedish Predictive Tones Correlates with Grey and White Matter Reorganization*, CNS p. (2020)
21. K. Markenroth Bloch, T. M. Kykilahti, O. Haglund, L. C. Lingehall, N. Fregne, J. Töger, I. Lundgaard, *Blood Flow in the Internal Carotid Arteries Is Correlated with CSF Outflow from the Ventricular System*, 28th ISMRM p. (2020)
22. I. Lundgaard, *Cerebral Blood Flow Drives Efflux of CSF from the Ventricular System*, Keystone symposia: Cerebral Fluid Flow and Function: Lymphatics, Glymphatics and the Choroid Plexus p. (2020)
23. M. Truong, K. Markenroth Bloch, M. Andersen, G. Andsberg, J. Töger, J. Wasselius, *Endovascular Thrombectomy Using Stent Retrievers Affects the Vessel Wall: Impact Demonstrated by Wall Enhancement at 7T*, 27th ISMRM p. (2019)
24. J. Töger, M. J. Zahr, K. Markenroth Bloch, M. Carlsson, P.-O. Persson, *Accelerated 4D Flow Using Simulation-Based Imaging Based on the Navier-Stokes Equations*, 22th SCMR p. (2019)
25. J. Töger, M. Andersen, K. Markenroth Bloch, *Accuracy of Real-Time Quantitative Flow Imaging in Small Diameters Using Compressed Sensing at 7T: A Phantom Study*, 27th ISMRM p. (2019)
26. H. Olsson, M. Andersen, J. Lätt, R. Wirestam, G. Helms, *Magnetization Transfer (MT) of Human Brain at 7T in the Context of a 3D Multi-Parameter Mapping Protocol*, 27th ISMRM p. (2019)
27. E. Olsson, P. Peterson, A. Struglics, M. Gottschalk, P. Önnérjörd, J. Svensson, *gagCEST Effect Strongly Depends on Gag Molecular Composition*, 27th ISMRM p. (2019)
28. G. Helms, H. Olsson, M. Andersen, *Removing Bias and Increasing Dynamic Range in DREAM Flip Angle Mapping at 7T*, 27th ISMRM p. (2019)
29. S. Götestrand, A. Björkman, I. Björkman-Burtscher, F. Visser, K. Markenroth Bloch, M. Andersen, M. Geijer, *The Potential of Ultra-High Field MRI to Diagnose Wrist Ligament Tear*, ISMRM Workshop on Ultrahigh Field Magnetic Resonance: Technological Advances, Translational Research Promises & Clinical Applications p. (2019)
30. S. Brinkhof, A. Aidin Ali Haghnejad, Ali, K. Ito, K. Markenroth Bloch, D. Klomp, *Uncompromised MRI of Knee Cartilage While Incorporating Sensitive Sodium MRI*, 27th ISMRM p. (2019)
31. M. Andersen, A. Marsman, A. Lind, E. T. Petersen, V. O. Boer, *Prospective Motion Correction in Single Voxel Spectroscopy at 7T Using Fat Navigators and Higher Order Shimming*, 27th ISMRM p. (2019)
32. V. Wiggermann, A. Mckay, G. Helms, A. Rauscher, *In Vivo High-Field Myelin Water Imaging: Investigating the T2 Distribution at 7T*, 26th ISMRM p. (2018)
33. J. Töger, M. J. Zahr, K. Markenroth Bloch, P.-O. Persson, *Towards 4D Flow High-Resolution Imaging with a Priori Knowledge Incorporating the Navier-Stokes Equations and Discontinuous Galerkin Method (4D Flow Hiking)*, SCMR p. (2018)
34. J. Töger, M. J. Zahr, K. Markenroth Bloch, M. Carlsson, P.-O. Persson, *High-Resolution Imaging with a Priori Knowledge Incorporating the Navier-Stokes Equations and the Discontinuous Galerkin Method (4D Flow Hiking): Towards Flow Reconstruction Constrained by Computational Fluid Dynamics*, ISMRM, 26th annual meeting p. (2018)
35. M. Simic, J. Olsrud, K. Markenroth Bloch, T. Owman, I. Björkman-Burtscher, *A Five Step MR Safety Screening Procedure*, SMRT, 25th annual meeting p. (2018)
36. K. Markenroth Bloch, F. Kording, J. Töger, *Intracranial Flow Measurements at 7T Gated with Doppler Ultrasound*, 26th ISMRM p. (2018)
37. K. Markenroth Bloch, F. Kording, J. Töger, *Intracranial Flow Measurements at 7T Triggered by Doppler Ultrasound*, 9th Ultra high field Magnetic Resonance Imaging p. (2018)
38. B. Lampinen, A. Sampell, F. Szczepankiewicz, M. Compagno Strandberg, K. Källén, I. Björkman-Burtscher, M. Nilsson, *Microscopic Diffusion Anisotropy Reveals Microstructural Heterogeneity*

- of Malformations Cortical Development Associated with Epilepsy: A B-Tensor Encoding Study at 7T*, 26th ISMRM p. (2018)
39. L. M. Gottwald, J. Töger, E. S. Peper, K. Markenroth Bloch, Q. Zhang, B. F. Coolen, P. V. Ooij, G. J. Strijkers, A. J. Nederveen, *Pseudo Spiral Sampling and Compressed Sensing Reconstruction Provides High Acceleration of Intracranial 4D Flow MRI at 7T*, 26th ISMRM p. (2018)
 40. F. Szczepankiewicz, J. Sjölund, F. Ståhlberg, J. Lätt, M. Nilsson, *Whole Brain Diffusional Variance Decomposition (DIVIDE) in 8 Minutes: Technical Feasibility at 1.5, 3 and 7T*, 25th ISMRM p. 3503 (2017)
 41. P. Peterson, E. Olsson, L. E. Olsson, C. J. Tiderius, J. Svensson, *Knee dGEMRIC at 7 T: Validation against 1.5 T and Comparison of T1 Mapping Methods*, 25th ISMRM p. (2017)
 42. M. Novén, A. Schremm, M. Horne, M. Roll, *Cortical Thickness of Planum Temporale Influences Word Tone Processing in Swedish Native Speakers*, OHBM Annual Meeting p. (2017)
 43. K. Markenroth Bloch, J. Töger, F. Ståhlberg, *Cerebrospinal Fluid (CSF) Flow in the Cerebral Aqueduct Can Be Quantified with High Resolution Using Magnetic Resonance Imaging at 7 Tesla*, ESMRMB, 34th annual meeting p. (2017)
 44. K. Markenroth Bloch, J. Töger, F. Ståhlberg, *Cerebrospinal Fluid (CSF) Flow in the Cerebral Aqueduct Can Be Quantified with High Resolution Using Magnetic Resonance Imaging at 7 Tesla*, SMRA, 29th annual meeting p. (2017)
 45. K. Markenroth Bloch, J. Töger, F. Ståhlberg, *Cerebrospinal Fluid (CSF) Flow in the Cerebral Aqueduct Can Be Quantified with High Resolution Using Magnetic Resonance Imaging at 7 Tesla*, ESNR, 40th annual meeting p. (2017)
 46. L. Knutsson, X. Xu, F. Ståhlberg, P. Barker, P. C. Sundgren, P. Van Zijl, R. Wirestam, *Dynamic Susceptibility Contrast MRI at 7T: Tail Scaling; Analysis and Inferences About Field Strength Dependence*, ISMRM, 25th annual meeting p. (2017)
 47. B. Hansson, J. Olsrud, T. Owman, J. Frankel, J. Wilén, P. Höglund, I. Björkman-Burtscher, *Swedish National Survey on MR Safety*, SMRT, 26th annual meeting p. (2017)
 48. B. Hansson, P. Höglund, J. Olsrud, K. Markenroth Bloch, M. Nilsson, J. Frankel, T. Owman, J. Arborelius, I. Björkman-Burtscher, *Short-Term Effects During Examinations in an Actively Shielded 7T MR*, ECR p. (2017)
 49. B. Hansson, I. Björkman-Burtscher, *Clinical 7T MR and Patient Compliance*, ESNR, 40th annual meeting p. (2017)
 50. I. Björkman-Burtscher, *Clinical Neuroimaging at Swedish National 7T*, ESNR, 40th annual meeting p. (2017)
 51. F. Szczepankiewicz, C.-F. Westin, F. Ståhlberg, J. Lätt, M. Nilsson, *Microscopic Anisotropy Imaging at 7T Using Asymmetrical Gradient Waveform Encoding*, ISMRM, 24th annual meeting p. 1081 (2016)
 52. P. Peterson, X. Xu, L. E. Olsson, P. Van Zijl, J. Svensson, *gagCEST at 7T: Comparison of Evaluation Methods*, ESMRMB, 33rd annual meeting p. (2016)
 53. P. Peterson, J. Svensson, *Investigation of Relaxation Effects in gagCEST – a Simulation Study*, ESMRMB, 33rd annual meeting p. (2016)
 54. B. Hansson, J. Olsrud, M. Nilsson, J. Frankel, J. Wilén, T. Owman, J. Arborelius, I. Björkman-Burtscher, *Short-Term Effects During Examination in an Actively Shielded 7T MR System* SMRT, 25th annual meeting p. (2016)