

Conference proceedings (data and/or co-authors at the national 7T facility)

1. Zampeli, A., Björkman-Burtscher, I., Källén, K., Hansson, B., Markenroth Bloch, K., Compagno Strandberg, M., *Morphological 7T MRI of malformations of cortical development in patients with focal epilepsy*, 14th European Congress on Epileptology 2020, Geneva:
2. Spotorno, N., Nilsson, M., Hansson, B., Andersson, F., Leuzy, A., *et al.*, *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 2020, Sydney/online: *digital poster 1856*
3. Novén, M., Horne, M., Nilsson, M., Roll, M., *Learning Swedish predictive tones correlates with grey and white matter reorganization*, CNS 2020, Boston/online: *e-poster D53*
4. Markenroth Bloch, K., Kylkilahti, T. M., Haglund, O., Lingeall, L. C., Fregne, N., Töger, J., Lundgaard, I., *Blood flow in the internal carotid arteries is correlated with CSF outflow from the ventricular system*, ISMRM, 28th annual meeting 2020, Sydney: *oral 2655*
5. Lundgaard, I., *Cerebral blood flow drives efflux of CSF from the ventricular system*, Keystone symposia: Cerebral Fluid Flow and Function: Lymphatics, Glymphatics and the Choroid Plexus 2020, Santa Fe: *short talk*
6. Truong, M., Markenroth Bloch, K., Andersen, M., Andsberg, G., Töger, J., Wasselius, J., *Endovascular thrombectomy using stent retrievers affects the vessel wall: Impact demonstrated by wall enhancement at 7T*, 27th ISMRM 2019, Montreal: *e-poster 2808*
7. Töger, J., Zahr, M. J., Markenroth Bloch, K., Carlsson, M., Persson, P.-O., *Accelerated 4D flow using simulation-based imaging based on the navier-stokes equations*, 22th SCMR 2019:
8. Töger, J., Andersen, M., Markenroth Bloch, K., *Accuracy of real-time quantitative flow imaging in small diameters using compressed sensing at 7T: A phantom study*, 27th ISMRM 2019, Montreal: *oral 753*
9. Olsson, H., Andersen, M., Lätt, J., Wirestam, R., Helms, G., *Magnetization transfer (mt) of human brain at 7T in the context of a 3D multi-parameter mapping protocol*, 27th ISMRM 2019, Montreal: *oral 309*
10. Olsson, E., Peterson, P., Struglics, A., Gottschalk, M., Önnarfjord, P., Svensson, J., *gagCEST effect strongly depends on gag molecular composition*, 27th ISMRM 2019, Montreal: *e-poster 1331*
11. Helms, G., Olsson, H., Andersen, M., *Removing bias and increasing dynamic range in DREAM flip angle mapping at 7T*, 27th ISMRM 2019, Montreal: *e-poster 4500*
12. Götestrand, S., Björkman, A., Björkman-Burtscher, I., Visser, F., Markenroth Bloch, K., Andersen, M., Geijer, M., *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 2019, Cavtat, Croatia: *oral*
13. Brinkhof, S., Aidin Ali Haghnejad, A., Ali, Ito, K., Markenroth Bloch, K., Klomp, D., *Uncompromised MRI of knee cartilage while incorporating sensitive sodium MRI*, 27th ISMRM 2019, Montreal:
14. Andersen, M., Marsman, A., Lind, A., Petersen, E. T., Boer, V. O., *Prospective motion correction in single voxel spectroscopy at 7T using fat navigators and higher order shimming*, 27th ISMRM 2019, Montreal: *oral 513*

15. Wiggermann, V., McKay, A., Helms, G., Rauscher, A., *In vivo high-field myelin water imaging: Investigating the T2 distribution at 7T*, 26th ISMRM 2018, Paris: e-poster 5499
16. Töger, J., Zahr, M. J., Markenroth Bloch, K., Persson, P.-O., *Towards 4D flow high-resolution imaging with a priori knowledge incorporating the navier-stokes equations and discontinuous galerkin method (4D flow hiking)*, SCMR 2018, Barcelona: oral 371794
17. Töger, J., Zahr, M. J., Markenroth Bloch, K., Carlsson, M., Persson, P.-O., *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 2018, Paris: poster 2977
18. Simic, M., Olsrud, J., Markenroth Bloch, K., Owman, T., Björkman-Burtscher, I., *A five step MR safety screening procedure*, SMRT, 25th annual meeting 2018, Paris: poster
19. Markenroth Bloch, K., Kording, F., Töger, J., *Intracranial flow measurements at 7T gated with doppler ultrasound*, ISMRM, 26th annual meeting 2018, Paris: oral 1229
20. Markenroth Bloch, K., Kording, F., Töger, J., *Intracranial flow measurements at 7T triggered by doppler ultrasound*, 9th Ultra high field Magnetic Resonance Imaging 2018, Berlin: power poster 98
21. Lampinen, B., Sampell, A., Szczepankiewicz, F., Compagno Strandberg, M., Källén, K., Björkman-Burtscher, I., Nilsson, M., *Microscopic diffusion anisotropy reveals microstructural heterogeneity of malformations cortical development associated with epilepsy: A b-tensor encoding study at 7T*, ISMRM, 26th annual meeting 2018, Paris: electronic poster 5240
22. Gottwald, L. M., Töger, J., Peper, E. S., Markenroth Bloch, K., Zhang, Q., et al., *Pseudo spiral sampling and compressed sensing reconstruction provides high acceleration of intracranial 4D flow MRI at 7T*, ISMRM, 26th annual meeting 2018, Paris: electronic poster 4919
23. Szczepankiewicz, F., Sjölund, J., Ståhlberg, F., Lätt, J., Nilsson, M., *Whole brain diffusional variance decomposition (DIVIDE) in 8 minutes: Technical feasibility at 1.5, 3 and 7T*, ISMRM, 25th annual meeting 2017, Honolulu: electronic poster 3503
24. Peterson, P., Olsson, E., Olsson, L. E., Tiderius, C. J., Svensson, J., *Knee dGEMRIC at 7 T: Validation against 1.5 T and comparison of T1 mapping methods*, ISMRM, 25th annual meeting 2017, Honolulu: poster 1545
25. Novén, M., Schremm, A., Horne, M., Roll, M., *Cortical thickness of planum temporale influences word tone processing in Swedish native speakers*, OHBM Annual Meeting 2017, Vancouver: poster 3672
26. Markenroth Bloch, K., Töger, J., Ståhlberg, F., *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 2017, Barcelona: power poster 98
27. Markenroth Bloch, K., Töger, J., Ståhlberg, F., *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 2017, Stellenbosch: oral
28. Markenroth Bloch, K., Töger, J., Ståhlberg, F., *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 2017, Malmö: oral 1.04

29. Knutsson, L., Xu, X., Ståhlberg, F., Barker, P., Sundgren, P. C., Van Zijl, P., Wirestam, R., *Dynamic susceptibility contrast MRI at 7T: Tail scaling; analysis and inferences about field strength dependence*, ISMRM, 25th annual meeting 2017, Honolulu: poster 1904
30. Hansson, B., Olsrud, J., Owman, T., Frankel, J., Wilén, J., Höglund, P., Björkman-Burtscher, I., *Swedish national survey on MR safety*, SMRT, 26th annual meeting 2017, Honolulu: poster
31. Hansson, B., Höglund, P., Olsrud, J., Markenroth Bloch, K., Nilsson, M., *et al.*, *Short-term effects during examinations in an actively shielded 7T MR*, ECR 2017, Vienna: oral B-0315
32. Hansson, B., Björkman-Burtscher, I., *Clinical 7T MR and patient compliance*, ESNR, 40th annual meeting 2017, Malmö: oral 1.015
33. Björkman-Burtscher, I., *Clinical neuroimaging at Swedish national 7T*, ESNR, 40th annual meeting 2017, Malmö: Invited talk
34. Szczepankiewicz, F., Westin, C.-F., Ståhlberg, F., Lätt, J., Nilsson, M., *Microscopic anisotropy imaging at 7T using asymmetrical gradient waveform encoding*, ISMRM, 24th annual meeting 2016, Singapore: oral 1081
35. Peterson, P., Xu, X., Olsson, L. E., Van Zijl, P., Svensson, J., *gagCEST at 7T: Comparison of evaluation methods*, ESMRMB, 33rd annual meeting 2016, Vienna: power poster 198
36. Peterson, P., Svensson, J., *Investigation of relaxation effects in gagCEST – a simulation study*, ESMRMB, 33rd annual meeting 2016, Vienna: power poster 188
37. Hansson, B., Olsrud, J., Nilsson, M., Frankel, J., Wilén, J., *et al.*, *Short-term effects during examination in an actively shielded 7T MR system* SMRT, 25th annual meeting 2016, Singapore: poster 15