

Dear Colleagues,

Here is the ASL Newsletter No. 24.
Have a nice Advent season.

Cheers,
Johanna

Recent publications November 2012, (e-publications might have been earlier):

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Animal studies

[Hematocrit and oxygenation dependence of blood \(1\) H\(2\) O T\(1\) at 7 tesla.](#)

Grgac K, van Zijl PC, Qin Q.

Magn Reson Med. 2012 Nov 20. doi: 10.1002/mrm.24547. [Epub ahead of print]

[Measuring biexponential transverse relaxation of the ASL signal at 9.4 T to estimate arterial oxygen saturation and the time of exchange of labeled blood water into cortical brain tissue.](#)

Wells JA, Siow B, Lythgoe MF, Thomas DL.

J Cereb Blood Flow Metab. 2012 Nov 21. doi: 10.1038/jcbfm.2012.156. [Epub ahead of print]

[Multislice cardiac arterial spin labeling using improved myocardial perfusion quantification with simultaneously measured blood pool input function.](#)

Campbell-Washburn AE, Zhang H, Siow BM, Price AN, Lythgoe MF, Ordidge RJ, Thomas DL.

Magn Reson Med. 2012 Nov 20. doi: 10.1002/mrm.24545. [Epub ahead of print]

Pharmacological / Drug studies

[Feasibility of ASL-based pHMRI with a single dose of oral citalopram for repeated assessment of serotonin function.](#)

Klomp A, Caan MW, Denys D, Nederveen AJ, Reneman L.

Neuroimage. 2012 Nov 15;63(3):1695-700. doi: 10.1016/j.neuroimage.2012.07.038. Epub 2012 Jul 27.

Perfusion studies other than on the brain

[Arterial Spin-labeling MR Imaging of Renal Masses: Correlation with Histopathologic Findings.](#)

Lanzman RS, Robson PM, Sun MR, Patel AD, Mentore K, Wagner AA, Genega EM, Rofsky NM, Alsop DC, Pedrosa I.

Radiology. 2012 Dec;265(3):799-808. doi: 10.1148/radiol.12112260. Epub 2012 Oct 9.

[MRI for the assessment of organ perfusion in patients with chronic kidney disease.](#)

Odudu A, Francis ST, McIntyre CW.

Curr Opin Nephrol Hypertens. 2012 Nov;21(6):647-54. doi: 10.1097/MNH.0b013e328358d582.

[Serum HSP27 is associated with medullary perfusion in kidney allografts.](#)

Marquez E, Sadowski E, Reese S, Vidyasagar A, Artz N, Fain S, Jacobson L, Swain W, Djamali A.

J Nephrol. 2012 Nov;25(6):1075-80. doi: 10.5301/jn.5000099.

Cerebral blood flow studies

[T2'- and PASL-based perfusion mapping at 3 Tesla: influence of oxygen-ventilation on cerebral autoregulation.](#)

Wagner M, Magerkurth J, Volz S, Jurcoane A, Singer OC, Neumann-Haefelin T, Zanella FE, Deichmann R, Hattingen E.

J Magn Reson Imaging. 2012 Dec;36(6):1347-52. doi: 10.1002/jmri.23777. Epub 2012 Aug 21.

Studies on special diseases

[3D GRASE arterial spin labelling reveals an inverse correlation of cortical perfusion with the white matter lesion volume in MS.](#)

Amann M, Achtnichts L, Hirsch JG, Naegelin Y, Gregori J, Weier K, Thöni A, Mueller-Lenke N, Radue EW, Günther M, Kappos L, Gass A.

Mult Scler. 2012 Nov;18(11):1570-6. doi: 10.1177/1352458512441984. Epub 2012 Mar 30.

[A quantitative method for correlating observations of decreased apparent diffusion coefficient with elevated cerebral blood perfusion in newborns presenting cerebral ischemic insults.](#)

Pienaar R, Paldino MJ, Madan N, Krishnamoorthy KS, Alsop DC, Dehaes M, Grant PE.

Neuroimage. 2012 Nov 15;63(3):1510-8. doi: 10.1016/j.neuroimage.2012.07.062. Epub 2012 Aug 7.

[Changes in cerebral blood flow after transjugular intrahepatic portosystemic shunt can help predict the development of hepatic encephalopathy: An arterial spin labeling MR study.](#)

Zheng G, Zhang LJ, Wang Z, Qi RF, Shi D, Wang L, Fan X, Lu GM.

Eur J Radiol. 2012 Dec;81(12):3851-6. doi: 10.1016/j.ejrad.2012.07.003. Epub 2012 Jul 23.

[Cerebral blood flow identifies responders to transcranial magnetic stimulation in auditory verbal hallucinations.](#)

Homan P, Kindler J, Hauf M, Hubl D, Dierks T.

Transl Psychiatry. 2012 Nov 20;2:e189. doi: 10.1038/tp.2012.114.

[Detection of symptomatic vasospasm after subarachnoid haemorrhage: initial findings from single time-point and serial measurements with arterial spin labelling.](#)

Aoyama K, Fushimi Y, Okada T, Miyasaki A, Taki H, Shibamoto K, Togashi K.

Eur Radiol. 2012 Nov;22(11):2382-91. doi: 10.1007/s00330-012-2511-5. Epub 2012 Jun 1.

[Hemodynamic Alterations in Vertebrobasilar Large Artery Disease Assessed by Arterial Spin-Labeling MR Imaging.](#)

Macintosh BJ, Marquardt L, Schulz UG, Jezzard P, Rothwell PM.

AJNR Am J Neuroradiol. 2012 Nov;33(10):1939-44. doi: 10.3174/ajnr.A3090. Epub 2012 May 3.

[Hypoglycemia-induced increases in thalamic cerebral blood flow are blunted in subjects with type 1 diabetes and hypoglycemia unawareness.](#)

Mangia S, Tesfaye N, De Martino F, Kumar AF, Kollasch P, Moheet AA, Eberly LE, Seaquist ER.

J Cereb Blood Flow Metab. 2012 Nov;32(11):2084-90. doi: 10.1038/jcbfm.2012.117. Epub 2012 Aug 15.

[MR evaluation of cerebral oxygen metabolism and blood flow in stroke-like episodes of MELAS.](#)

Wang Z, Xiao J, Xie S, Zhao D, Liu X, Zhang J, Yuan Y, Huang Y.

J Neurol Sci. 2012 Dec 15;323(1-2):173-7. doi: 10.1016/j.jns.2012.09.011. Epub 2012 Oct 11.

[Orbitofrontal cortex and impulsivity in borderline personality disorder: an MRI study of baseline brain perfusion.](#)

Wolf RC, Thomann PA, Sambataro F, Vasic N, Schmid M, Wolf ND.

Eur Arch Psychiatry Clin Neurosci. 2012 Dec;262(8):677-85. doi: 10.1007/s00406-012-0303-1. Epub 2012 Mar 11.

[Regional cerebral blood flow and cerebrovascular reactivity in Alzheimers disease and vascular dementia assessed by arterial spin-labeling magnetic resonance imaging.](#)

Gao YZ, Zhang JJ, Liu H, Wu GY, Xiong L, Shu M.

Curr Neurovasc Res. 2012 Nov 12. [Epub ahead of print]

Comparison of ASL Techniques or ASL compared with other imaging methods

[Comparison of 2D and 3D single-shot ASL perfusion fMRI sequences.](#)

Vidorreta M, Wang Z, Rodríguez I, Pastor MA, Detre JA, Fernández-Seara MA.

Neuroimage. 2012 Nov 7. doi:pii: S1053-8119(12)01091-9.

10.1016/j.neuroimage.2012.10.087. [Epub ahead of print]

[Coupling Between Resting Cerebral Perfusion and EEG.](#)

O'Gorman RL, Poil SS, Brandeis D, Klaver P, Bollmann S, Ghisleni C, Lüchinger R, Martin E, Shankaranarayanan A, Alsop DC, Michels L.

Brain Topogr. 2012 Nov 18. [Epub ahead of print]

[Simultaneous PET/MR imaging of the brain: feasibility of cerebral blood flow measurements with FAIR-TrueFISP arterial spin labeling MRI.](#)

Stegger L, Martirosian P, Schwenger N, Bisdas S, Kolb A, Pfannenbergl C, Claussen CD, Pichler B, Schick F, Boss A.

Acta Radiol. 2012 Nov 1;53(9):1066-72. doi: 10.1258/ar.2012.120191.

[Simultaneous PET/MR imaging in a human brain PET/MR system in 50 patients-Current state of image quality.](#)

Schwenger NF, Stegger L, Bisdas S, Schraml C, Kolb A, Boss A, Müller M, Reimold M, Ernemann U, Claussen CD, Pfannenbergl C, Schmidt H.

Eur J Radiol. 2012 Nov;81(11):3472-8. doi: 10.1016/j.ejrad.2011.12.027. Epub 2012 Jan 18.

Functional Imaging / BOLD

[Absolute quantification of resting oxygen metabolism and metabolic reactivity during functional activation using QUO2 MRI.](#)

Gauthier CJ, Desjardins-Crépeau L, Madjar C, Bherer L, Hoge RD.

Neuroimage. 2012 Nov 15;63(3):1353-63. doi: 10.1016/j.neuroimage.2012.07.065. Epub 2012 Aug 16.

[Comparison of 2D and 3D single-shot ASL perfusion fMRI sequences.](#)

Vidorreta M, Wang Z, Rodríguez I, Pastor MA, Detre JA, Fernández-Seara MA.

Neuroimage. 2012 Nov 7. doi:pii: S1053-8119(12)01091-9. 10.1016/j.neuroimage.2012.10.087. [Epub ahead of print]

[Functional arterial spin labeling: Optimal sequence duration for motor activation mapping in clinical practice.](#)

Raoult H, Ferré JC, Petr J, Bannier E, Stamm A, Barillot C, Gauvrit JY.

J Magn Reson Imaging. 2012 Dec;36(6):1435-44. doi: 10.1002/jmri.23782. Epub 2012 Aug 24.

[Origins of intersubject variability of blood oxygenation level dependent and arterial spin labeling fMRI: implications for quantification of brain activity.](#)

Gaxiola-Valdez I, Goodyear BG.

Magn Reson Imaging. 2012 Dec;30(10):1394-400. doi: 10.1016/j.mri.2012.05.002. Epub 2012 Jul 15.

Physiological Parameters beside CBF

[Hematocrit and oxygenation dependence of blood \(1\) H\(2\) O T\(1\) at 7 tesla.](#)

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AJNR Am J Neuroradiol. 2012 Nov;33(10):1939-44. doi: 10.3174/ajnr.A3090. Epub 2012 May 3.

[In vivo blood T\(1\) measurements at 1.5 T, 3 T, and 7 T.](#)

Zhang X, Petersen ET, Ghariq E, De Vis JB, Webb AG, Teeuwisse WM, Hendrikse J, van Osch MJ.

Magn Reson Med. 2012 Nov 21. doi: 10.1002/mrm.24550. [Epub ahead of print]

[Measuring biexponential transverse relaxation of the ASL signal at 9.4 T to estimate arterial oxygen saturation and the time of exchange of labeled blood water into cortical brain tissue.](#)

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Curr Opin Nephrol Hypertens. 2012 Nov;21(6):647-54. doi:

10.1097/MNH.0b013e328358d582.

Technical Improvement/ Parameter Optimisation/ Theoretical Papers

[Optimization of flow-sensitive alternating inversion recovery \(FAIR\) for perfusion functional MRI of rodent brain.](#)

Nasrallah FA, Lee EL, Chuang KH.

NMR Biomed. 2012 Nov;25(11):1209-16. doi: 10.1002/nbm.2790. Epub 2012 Mar 26.

Job offerings

If you have any vacancies send them to jobs@asl-network.org

Feature articles

If you like to write a comment on an interesting article mail it to editor@asl-network.org