

Dear Colleagues,

Here is the ASL Newsletter No. 32.

Kind regards,
Ina

Recent publications July 2013, (e-publications might have been earlier):

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Pharmacological / Drug studies / Studies on the effects of therapies

[Acute caffeine administration impact on working memory-related brain activation and functional connectivity in the elderly: a BOLD and perfusion MRI study.](#)

Haller S, Rodriguez C, Moser D, Toma S, Hofmeister J, Sinanaj I, Ville DV, Giannakopoulos P, Lovblad KO.

Neuroscience. 2013 Jul 19. doi:pii: S0306-4522(13)00603-9. 10.1016/j.neuroscience.2013.07.021. [Epub ahead of print]

[Comparison of cerebral vascular reactivity measures obtained using breath-holding and CO₂ inhalation.](#)

Tancredi FB, Hoge RD.

J Cereb Blood Flow Metab. 2013 Jul;33(7):1066-74. doi: 10.1038/jcbfm.2013.48. Epub 2013 Apr 10.

[Hemodynamic effects of cholinesterase inhibition in mild Alzheimer's disease.](#)

Chaudhary S, Scouten A, Schwindt G, Janik R, Lee W, Sled JG, Black SE, Stefanovic B.

J Magn Reson Imaging. 2013 Jul;38(1):26-35. doi: 10.1002/jmri.23967. Epub 2012 Dec 13.

[Widespread Modulation of Cerebral Perfusion Induced during and after Transcranial Direct Current Stimulation Applied to the Left Dorsolateral Prefrontal Cortex.](#)

Stagg CJ, Lin RL, Mezue M, Segerdahl A, Kong Y, Xie J, Tracey I.

J Neurosci. 2013 Jul 10;33(28):11425-31. doi: 10.1523/JNEUROSCI.3887-12.2013.

Perfusion studies other than on the brain

[Is it possible to do without the study of myocardial perfusion in 2012?](#)

Dacher JN, Lefebvre V, Dubourg B, Deux JF, Caudron J.

Diagn Interv Imaging. 2013 Jul 9. doi:pii: S2211-5684(13)00207-6. 10.1016/j.diii.2013.06.008. [Epub ahead of print]

[Myocardial perfusion quantification using the T₁-based FAIR-ASL method: The influence of heart anatomy, cardiopulmonary blood flow and look-locker readout.](#)

Kampf T, Helluy X, Gutjahr FT, Winter P, Meyer CB, Jakob PM, Bauer WR, Ziener CH.

Magn Reson Med. 2013 Jul 8. doi: 10.1002/mrm.24843. [Epub ahead of print]

[The heterogeneity of regional specific ventilation is unchanged following heavy exercise in athletes.](#)

Tedjasaputra V, Sá RC, Arai TJ, Holverda S, Theilmann RJ, Chen WT, Wagner PD, Davis CK, Kim Prisk G, Hopkins SR.

J Appl Physiol. 2013 Jul;115(1):126-35. doi: 10.1152/jappphysiol.00778.2012. Epub 2013 May 2.

[Vascular and renal hemodynamic changes after renal denervation.](#)

Ott C, Janka R, Schmid A, Titze S, Ditting T, Sobotka PA, Veelken R, Uder M, Schmieder RE.

Clin J Am Soc Nephrol. 2013 Jul;8(7):1195-201. doi: 10.2215/CJN.08500812. Epub 2013 Apr 4.

[Balanced steady state free precession for arterial spin labeling MRI: Initial experience for blood flow mapping in human brain, retina, and kidney.](#)

Park SH, Wang DJ, Duong TQ.

Magn Reson Imaging. 2013 Sep;31(7):1044-50. doi: 10.1016/j.mri.2013.03.024. Epub 2013 May 8.

Cerebral blood flow studies

Studies on special diseases

[Functional MRI and outcome in traumatic coma.](#)

Edlow BL, Giacino JT, Wu O.

Curr Neurol Neurosci Rep. 2013 Sep;13(9):375. doi: 10.1007/s11910-013-0375-y.

[Comparison of arterial spin labeling and dynamic susceptibility contrast perfusion MRI in patients with acute stroke.](#)

Huang YC, Liu HL, Lee JD, Yang JT, Weng HH, Lee M, Yeh MY, Tsai YH.

PLoS One. 2013 Jul 16;8(7):e69085. doi: 10.1371/journal.pone.0069085. Print 2013.

[Arterial Spin-Labeled Perfusion Imaging to Predict Mismatch in Acute Ischemic Stroke.](#)

Niibo T, Ohta H, Yonenaga K, Ikushima I, Miyata S, Takeshima H.

Stroke. 2013 Jul 18. [Epub ahead of print]

[Accuracy of Vessel-Encoded Pseudocontinuous Arterial Spin-Labeling in Identification of Feeding Arteries in Patients with Intracranial Arteriovenous Malformations.](#)

Yu SL, Wang R, Wang R, Wang S, Yao YQ, Zhang D, Zhao YL, Zuo ZT, Xue R, Wang DJ, Zhao JZ.

AJNR Am J Neuroradiol. 2013 Jul 18. [Epub ahead of print]

[Cerebral blood flow measured by arterial-spin labeling MRI: A useful biomarker for characterization of minimal hepatic encephalopathy in patients with cirrhosis.](#)

Zheng G, Zhang LJ, Zhong J, Wang Z, Qi R, Shi D, Lu GM.

Eur J Radiol. 2013 Jul 9. doi:pii: S0720-048X(13)00295-7. 10.1016/j.ejrad.2013.06.002. [Epub ahead of print]

[Hypoperfusion and T1-hypointense lesions in white matter in multiple sclerosis.](#)

Narayana PA, Zhou Y, Hasan KM, Datta S, Sun X, Wolinsky JS.

Mult Scler. 2013 Jul 8. [Epub ahead of print]

[Cerebral perfusion alterations in epileptic patients during peri-ictal and post-ictal phase: PASL vs DSC-MRI.](#)

Pizzini FB, Farace P, Manganotti P, Zoccatelli G, Bongiovanni LG, Golay X, Beltramello A, Osculati A, Bertini G, Fabene PF.

Magn Reson Imaging. 2013 Jul;31(6):1001-5. doi: 10.1016/j.mri.2013.03.023. Epub 2013 Apr 24.

[Abnormalities of cerebral blood flow in multiple sclerosis: A pseudocontinuous arterial spin labeling MRI study.](#)

Ota M, Sato N, Nakata Y, Ito K, Kamiya K, Maikusa N, Ogawa M, Okamoto T, Obu S, Noda T, Araki M, Yamamura T, Kunugi H.

Magn Reson Imaging. 2013 Jul;31(6):990-5. doi: 10.1016/j.mri.2013.03.016. Epub 2013 Apr 11.

[Vascular and renal hemodynamic changes after renal denervation.](#)

Ott C, Janka R, Schmid A, Titze S, Ditting T, Sobotka PA, Veelken R, Uder M, Schmieder RE.

Clin J Am Soc Nephrol. 2013 Jul;8(7):1195-201. doi: 10.2215/CJN.08500812. Epub 2013 Apr 4.

[At-risk brain tissue identified with arterial spin labeling in neurotuberculosis.](#)

Margariti P, Sanchez-Montanez A, Delgado I, Elorza Alvarez I, Vazquez E.

Pediatr Radiol. 2013 Aug;43(8):1049-52. doi: 10.1007/s00247-013-2624-2. Epub 2013 Feb 2.

[Hemodynamic effects of cholinesterase inhibition in mild Alzheimer's disease.](#)

Chaudhary S, Scouten A, Schwindt G, Janik R, Lee W, Sled JG, Black SE, Stefanovic B.

J Magn Reson Imaging. 2013 Jul;38(1):26-35. doi: 10.1002/jmri.23967. Epub 2012 Dec 13.

[Arterial spin labeling identifies tissue salvage and good clinical recovery after acute ischemic stroke.](#)

Bivard A, Stanwell P, Levi C, Parsons M.

J Neuroimaging. 2013 Jul;23(3):391-6. doi: 10.1111/j.1552-6569.2012.00728.x. Epub 2012 Aug 22.

[Reliability analysis of the resting state can sensitively and specifically identify the presence of Parkinson disease.](#)

Skidmore FM, Yang M, Baxter L, von Deneen KM, Collingwood J, He G, White K, Korenkevych D, Savenkov A, Heilman KM, Gold M, Liu Y.

Neuroimage. 2013 Jul 15;75:249-61. doi: 10.1016/j.neuroimage.2011.06.056. Epub 2011 Sep 6.

Comparison of ASL Techniques or ASL compared with other Imaging methods

[Validation of planning-free vessel-encoded pseudo-continuous arterial spin labeling MR imaging as territorial-ASL strategy by comparison to super-selective p-CASL MRI.](#)

Hartkamp NS, Helle M, Chappell MA, Okell TW, Hendrikse J, Bokkers RP, van Osch MJ.

Magn Reson Med. 2013 Jul 22. doi: 10.1002/mrm.24872. [Epub ahead of print]

[Comparison of arterial spin labeling and dynamic susceptibility contrast perfusion MRI in patients with acute stroke.](#)

Huang YC, Liu HL, Lee JD, Yang JT, Weng HH, Lee M, Yeh MY, Tsai YH.
PLoS One. 2013 Jul 16;8(7):e69085. doi: 10.1371/journal.pone.0069085. Print 2013.

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Magn Reson Imaging. 2013 Jul;31(6):1001-5. doi: 10.1016/j.mri.2013.03.023. Epub 2013 Apr 24.

Functional Imaging / BOLD

[Functional MRI and outcome in traumatic coma.](#)

Edlow BL, Giacino JT, Wu O.
Curr Neurol Neurosci Rep. 2013 Sep;13(9):375. doi: 10.1007/s11910-013-0375-y.

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[Noninvasive functional imaging of cerebral blood volume with vascular-space-occupancy \(VASO\) MRI.](#)

Lu H, Hua J, van Zijl PC.
NMR Biomed. 2013 Aug;26(8):932-48. doi: 10.1002/nbm.2905. Epub 2013 Jan 28.

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Neuroimage. 2013 Jul 15;75:249-61. doi: 10.1016/j.neuroimage.2011.06.056. Epub 2011 Sep 6.

Physiological Parameters besides CBF

[Clinical Feasibility of Noninvasive Visualization of Lymphatic Flow with Principles of Spin Labeling MR Imaging: Implications for Lymphedema Assessment.](#)

Rane S, Donahue PM, Towse T, Ridner S, Chappell M, Jordi J, Gore J, Donahue MJ.
Radiology. 2013 Jul 17. [Epub ahead of print]

Comparison of ASL Evaluation Methods

[Patient-specific detection of perfusion abnormalities combining within-subject and between-subject variances in Arterial Spin Labeling.](#)

Maumet C, Maurel P, Ferré JC, Carsin B, Barillot C.
Neuroimage. 2013 May 10. doi:pii: S1053-8119(13)00426-6.
10.1016/j.neuroimage.2013.04.079. [Epub ahead of print]

Technical Improvement/ Parameter Optimisation/ Theoretical Papers

[Whole brain perfusion measurements using arterial spin labeling with multiband acquisition.](#)

Kim T, Shin W, Zhao T, Beall EB, Lowe MJ, Bae KT.
Magn Reson Med. 2013 Jul 22. doi: 10.1002/mrm.24880. [Epub ahead of print]

[A theoretical framework for quantifying blood volume flow rate from dynamic angiographic data and application to vessel-encoded arterial spin labeling MRI.](#)

Okell TW, Chappell MA, Jezzard P.
Med Image Anal. 2013 Jul 4;17(8):1025-1036. doi: 10.1016/j.media.2013.06.005. [Epub ahead of print]

[Near-contiguous spin echo imaging using matched-phase RF and its application in velocity-selective arterial spin labeling.](#)

Zun Z, Hargreaves BA, Pauly J, Zaharchuk G.
Magn Reson Med. 2013 Jul 15. doi: 10.1002/mrm.24866. [Epub ahead of print]

[Myocardial perfusion quantification using the \$T_1\$ -based FAIR-ASL method: The influence of heart anatomy, cardiopulmonary blood flow and look-locker readout.](#)

Kampf T, Helluy X, Gutjahr FT, Winter P, Meyer CB, Jakob PM, Bauer WR, Ziener CH.
Magn Reson Med. 2013 Jul 8. doi: 10.1002/mrm.24843. [Epub ahead of print]

[Feasibility of MR perfusion-weighted imaging by use of a time-spatial labeling inversion pulse.](#)

Ishimori Y, Kawamura H, Monma M.
Radiol Phys Technol. 2013 Jul;6(2):461-6. doi: 10.1007/s12194-013-0219-0. Epub 2013 May 24.

[Vessel-selective, non-contrast enhanced, time-resolved MR angiography with vessel-selective arterial spin labeling technique \(CINEMA-SELECT\) in intracranial arteries.](#)

Nakamura M, Yoneyama M, Tabuchi T, Takemura A, Obara M, Tatsuno S, Sawano S.
Radiol Phys Technol. 2013 Jul;6(2):327-34. doi: 10.1007/s12194-013-0204-7. Epub 2013 Mar 10.

[Optimizing pTILT perfusion imaging in the presence of off-resonance frequency.](#)

Ouyang C, Sutton BP.
J Magn Reson Imaging. 2013 Jul;38(1):210-6. doi: 10.1002/jmri.23968. Epub 2012 Dec 13.

[Balanced steady state free precession for arterial spin labeling MRI: Initial experience for blood flow mapping in human brain, retina, and kidney.](#)

Park SH, Wang DJ, Duong TQ.

Magn Reson Imaging. 2013 Sep;31(7):1044-50. doi: 10.1016/j.mri.2013.03.024. Epub 2013 May 8.

Review Paper/ Historical Review

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Edlow BL, Giacino JT, Wu O.

Curr Neurol Neurosci Rep. 2013 Sep;13(9):375. doi: 10.1007/s11910-013-0375-y.

[New developments in arterial spin labeling pulse sequences.](#)

Wong EC.

NMR Biomed. 2013 Jun 3. doi: 10.1002/nbm.2954. [Epub ahead of print]

[Arterial spin labeling \(ASL\) perfusion: Techniques and clinical use.](#)

Ferré JC, Bannier E, Raoult H, Mineur G, Carsin-Nicol B, Gauvrit JY.

Diagn Interv Imaging. 2013 Jul 11. doi:pii: S2211-5684(13)00209-X. 10.1016/j.diii.2013.06.010. [Epub ahead of print]

[Is it possible to do without the study of myocardial perfusion in 2012?](#)

Dacher JN, Lefebvre V, Dubourg B, Deux JF, Caudron J.

Diagn Interv Imaging. 2013 Jul 9. doi:pii: S2211-5684(13)00207-6. 10.1016/j.diii.2013.06.008. [Epub ahead of print]

[Clinical applications of arterial spin labeling.](#)

Watts JM, Whitlow CT, Maldjian JA.

NMR Biomed. 2013 Aug;26(8):892-900. doi: 10.1002/nbm.2904. Epub 2013 Feb 3.

[Noninvasive functional imaging of cerebral blood volume with vascular-space-occupancy \(VASO\) MRI.](#)

Lu H, Hua J, van Zijl PC.

NMR Biomed. 2013 Aug;26(8):932-48. doi: 10.1002/nbm.2905. Epub 2013 Jan 28.

[Mapping of cerebral perfusion territories using territorial arterial spin labeling: techniques and clinical application.](#)

Hartkamp NS, Petersen ET, De Vis JB, Bokkers RP, Hendrikse J.

NMR Biomed. 2013 Aug;26(8):901-12. doi: 10.1002/nbm.2836. Epub 2012 Jul 15.

[Use of Magnetic Resonance Imaging in Pharmacogenomics.](#)

Viviani R, Lehmann ML, Stingl JC.

Br J Clin Pharmacol. 2013 Jun 26. doi: 10.1111/bcp.12197. [Epub ahead of print]

Job offerings

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

Feature articles

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