

Dear Colleagues,

Here is the ASL Newsletter No. 46.

Kind regards,
Ina

Recent publications September 2014, (e-publications might have been earlier):

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Animal Studies

[Lack of dystrophin results in abnormal cerebral diffusion and perfusion in vivo.](#)

Goodnough CL, Gao Y, Li X, Qutaish MQ, Goodnough LH, Molter J, Wilson D, Flask CA, Yu X.

Neuroimage. 2014 Sep 7;102P2:809-816. doi: 10.1016/j.neuroimage.2014.08.053. [Epub ahead of print]

[Effect of high dose isoflurane on cerebral blood flow in macaque monkeys.](#)

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[Quantitative mapping of cerebral metabolic rate of oxygen \(CMRO₂\) using quantitative susceptibility mapping \(QSM\).](#)

Zhang J, Liu T, Gupta A, Spincemaille P, Nguyen TD, Wang Y.

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[Neuronal activation induced BOLD and CBF responses upon acetazolamide administration in patients with steno-occlusive artery disease.](#)

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[Myocardial perfusion assessment in humans using steady-pulsed arterial spin labeling.](#)

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[Perfusion measurements of the calf in patients with peripheral arterial occlusive disease before and after percutaneous transluminal angioplasty using MR arterial spin labeling.](#)

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CBF Correlation with Age

[Accelerated white matter aging in schizophrenia: role of white matter blood perfusion.](#)

Wright SN, Kochunov P, Chiappelli J, McMahon RP, Muellerklein F, Wijtenburg SA, White MG, Rowland LM, Hong LE.

Neurobiol Aging. 2014 Oct;35(10):2411-8. doi: 10.1016/j.neurobiolaging.2014.02.016. Epub 2014 Feb 28.

CBF Regional Comparison/ Regional ASL

[3.0T MRI arterial spin labeling and magnetic resonance spectroscopy technology in the application of Alzheimer's disease.](#)

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World J Gastroenterol. 2014 Sep 7;20(33):11815-25. doi: 10.3748/wjg.v20.i33.11815.

[Crossed cerebellar diaschisis detected by arterial spin-labeled perfusion magnetic resonance imaging in subacute ischemic stroke.](#)

Chen S, Guan M, Lian HJ, Ma LJ, Shang JK, He S, Ma MM, Zhang ML, Li ZY, Wang MY, Shi DP, Zhang JW.
J Stroke Cerebrovasc Dis. 2014 Oct;23(9):2378-83. doi: 10.1016/j.jstrokecerebrovasdis.2014.05.009. Epub 2014 Aug 31.

[Diagnostic classification of arterial spin labeling and structural MRI in presenile early stage dementia.](#)

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[Pseudo-continuous arterial spin labeling quantifies cerebral blood flow in patients with acute ischemic stroke and chronic lacunar stroke.](#)

Guo L, Zhang Q, Ding L, Liu K, Ding K, Jiang C, Liu C, Li K, Cui L.
Clin Neurol Neurosurg. 2014 Oct;125:229-36. doi: 10.1016/j.clineuro.2014.08.017. Epub 2014 Aug 20.

[Interhemispheric Cerebral Blood Flow Balance during Recovery of Motor Hand Function after Ischemic Stroke-A Longitudinal MRI Study Using Arterial Spin Labeling Perfusion.](#)

Wiest R, Abela E, Missimer J, Schroth G, Hess CW, Sturzenegger M, Wang DJ, Weder B, Federspiel A.
PLoS One. 2014 Sep 5;9(9):e106327. doi: 10.1371/journal.pone.0106327. eCollection 2014.

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[Characterizing Early Alzheimer's Disease and Disease Progression Using Hippocampal Volume and Arterial Spin Labeling Perfusion MRI.](#)

Wang Z.
J Alzheimers Dis. 2014 Sep 2. [Epub ahead of print]

[Altered coupling of regional cerebral blood flow and brain temperature in schizophrenia compared with bipolar disorder and healthy subjects.](#)

Ota M, Sato N, Sakai K, Okazaki M, Maikusa N, Hattori K, Hori H, Teraishi T, Shimoji K, Yamada K, Kunugi H.
J Cereb Blood Flow Metab. 2014 Sep 3. doi: 10.1038/jcbfm.2014.151. [Epub ahead of print]

[Assesment of perfusion in glial tumors with arterial spin labeling; comparison with dynamic susceptibility contrast method.](#)

Cebeci H, Aydin O, Ozturk-Isik E, Gumus C, Inecikli F, Bekar A, Kocaeli H, Hakyemez B.
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[Phenotype matters: the absence of a positive association between cortical thinning and chronic low back pain when controlling for salient clinical variables.](#)

Dolman AJ, Loggia ML, Edwards RR, Gollub RL, Kong J, Napadow V, Wasan AD. Clin J Pain. 2014 Oct;30(10):839-45. doi: 10.1097/AJP.0000000000000043.

[Multimodality Evaluation of Dural Arteriovenous Fistula with CT Angiography, MR with Arterial Spin Labeling, and Digital Subtraction Angiography: Case Report.](#)

Alexander M, McTaggart R, Santarelli J, Fischbein N, Marks M, Zaharchuk G, Do H. J Neuroimaging. 2014 Sep;24(5):520-3. doi: 10.1111/jon.12032. Epub 2013 Jun 7.

[Diffusion tensor magnetic resonance imaging for predicting the consistency of intracranial meningiomas.](#)

Romani R, Tang WJ, Mao Y, Wang DJ, Tang HL, Zhu FP, Che XM, Gong Y, Zheng K, Zhong P, Li SQ, Bao WM, Benner C, Wu JS, Zhou LF. Acta Neurochir (Wien). 2014 Oct;156(10):1837-45. doi: 10.1007/s00701-014-2149-y. Epub 2014 Jul 8.

[The vascular steal phenomenon is an incomplete contributor to negative cerebrovascular reactivity in patients with symptomatic intracranial stenosis.](#)

Arteaga DF, Strother MK, Faraco CC, Jordan LC, Ladner TR, Dethrage LM, Singer RJ, Mocco J, Clemmons PF, Ayad MJ, Donahue MJ. J Cereb Blood Flow Metab. 2014 Sep;34(9):1453-62. doi: 10.1038/jcbfm.2014.106. Epub 2014 Jun 11.

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[Validation of the hypercapnic calibrated fMRI method using DOT-fMRI fusion imaging.](#)

Yücel MA, Evans KC, Selb J, Huppert TJ, Boas DA, Gagnon L.

Neuroimage. 2014 Sep 6;102P2:729-735. doi: 10.1016/j.neuroimage.2014.08.052. [Epub ahead of print]

[Simultaneous acquisition of cerebral blood volume-, blood flow-, and blood oxygenation-weighted MRI signals at ultra-high magnetic field.](#)

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[Resting high-frequency heart rate variability is related to resting brain perfusion.](#)

Allen B, Jennings JR, Gianaros PJ, Thayer JF, Manuck SB.

Psychophysiology. 2014 Sep 1. doi: 10.1111/psyp.12321. [Epub ahead of print]

[Investigation of brain hemodynamic changes induced by active and passive movements: A combined arterial spin labeling-BOLD fMRI study.](#)

Boscolo Galazzo I, Storti SF, Formaggio E, Pizzini FB, Fiaschi A, Beltramello A, Bertoldo A, Manganotti P.

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[Circadian and homeostatic modulation of functional connectivity and regional cerebral blood flow in humans under normal entrained conditions.](#)

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[Physiological and psychological individual differences influence resting brain function measured by ASL perfusion.](#)

Kano M, Coen SJ, Farmer AD, Aziz Q, Williams SC, Alsop DC, Fukudo S, O'Gorman RL.

Brain Struct Funct. 2014 Sep;219(5):1673-84. doi: 10.1007/s00429-013-0593-8. Epub 2013 Jun 16.

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[Modeling magnetization transfer effects of Q2TIPS bolus saturation in multi-TI pulsed arterial spin labeling.](#)

Petr J, Schramm G, Hofheinz F, Langner J, van den Hoff J.

Magn Reson Med. 2014 Oct;72(4):1007-14. doi: 10.1002/mrm.25011. Epub 2013 Nov 5.

[Partial volume correction of brain perfusion estimates using the inherent signal data of time-resolved arterial spin labeling.](#)

Ahlgren A, Wirestam R, Petersen ET, Ståhlberg F, Knutsson L.

NMR Biomed. 2014 Sep;27(9):1112-22. doi: 10.1002/nbm.3164. Epub 2014 Jul 26.

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Case Reports

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J Neuroimaging. 2014 Sep;24(5):520-3. doi: 10.1111/jon.12032. Epub 2013 Jun 7.

Technical Improvement/ Parameter Optimisation/ Theoretical Papers

[Evaluation of segmented 3D acquisition schemes for whole-brain high-resolution arterial spin labeling at 3 T.](#)

Vidorreta M, Balteau E, Wang Z, De Vita E, Pastor MA, Thomas DL, Detre JA, Fernández-Seara MA.

NMR Biomed. 2014 Sep 26. doi: 10.1002/nbm.3201. [Epub ahead of print]

[Myocardial perfusion assessment in humans using steady-pulsed arterial spin labeling.](#)

Capron T, Troalen T, Robert B, Jacquier A, Bernard M, Kober F.

Magn Reson Med. 2014 Sep 26. doi: 10.1002/mrm.25479. [Epub ahead of print]

[Increased SNR efficiency in velocity selective arterial spin labeling using multiple velocity selective saturation modules \(mm-VSASL\).](#)

Guo J, Wong EC.

Magn Reson Med. 2014 Sep 22. doi: 10.1002/mrm.25462. [Epub ahead of print]

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Krieger SN, Huber L, Poser BA, Turner R, Egan GF.

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[Pseudocontinuous arterial spin labeling with prospective motion correction \(PCASL-PROMO\).](#)

Zun Z, Shankaranarayanan A, Zaharchuk G.

Magn Reson Med. 2014 Oct;72(4):1049-56. doi: 10.1002/mrm.25024. Epub 2013 Nov 14.

[A variable flip angle-based method for reducing blurring in 3D GRASE ASL.](#)

Liang X, Connelly A, Tournier JD, Calamante F.

Phys Med Biol. 2014 Sep 21;59(18):5559-73. doi: 10.1088/0031-9155/59/18/5559. Epub 2014 Aug 29.

[Direct imaging of functional networks.](#)

Wong EC.

Brain Connect. 2014 Sep;4(7):481-6. doi: 10.1089/brain.2014.0294.

[Time-resolved angiography using inflow subtraction \(TRAILS\).](#)

Kopeinigg D, Bammer R.

Magn Reson Med. 2014 Sep;72(3):669-78. doi: 10.1002/mrm.24985. Epub 2013 Oct 24.

Review Paper/ Historical Review

[Perfusion Magnetic Resonance Imaging: A Comprehensive Update on Principles and Techniques.](#)

Jahng GH, Li KL, Ostergaard L, Calamante F.

Korean J Radiol. 2014 Sep;15(5):554-577. Epub 2014 Sep 12. Review.

[Arterial spin labeling MRI: Clinical applications in the brain.](#)

Telischak NA, Detre JA, Zaharchuk G.

J Magn Reson Imaging. 2014 Sep 19. doi: 10.1002/jmri.24751. [Epub ahead of print]

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Donahue J, Sumer S, Wintermark M.

J Neuroradiol. 2014 Oct;41(4):234-42. doi: 10.1016/j.neurad.2013.11.002. Epub 2013 Dec 30.

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