

Dear Colleagues,

Here is the ASL Newsletter No. 35.

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

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Animal studies

[Cerebral blood flow quantification in swine using pseudo-continuous arterial spin labeling.](#)

Johnston ME, Zheng Z, Maldjian JA, Whitlow CT, Morykwas MJ, Jung Y.
J Magn Reson Imaging. 2013 Nov;38(5):1111-8. doi: 10.1002/jmri.24066. Epub 2013 Sep 16.

[Cine-ASL: A steady-pulsed arterial spin labeling method for myocardial perfusion mapping in mice. Part I. Experimental study.](#)

Troalen T, Capron T, Cozzone PJ, Bernard M, Kober F.
Magn Reson Med. 2013 Nov;70(5):1389-98. doi: 10.1002/mrm.24565. Epub 2013 Jan 2.

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[Quantitative mouse renal perfusion using arterial spin labeling.](#)

Rajendran R, Lew SK, Yong CX, Tan J, Wang DJ, Chuang KH.
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Pharmacological / Drug studies / Studies on the effects of therapies

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Denier N, Schmidt A, Gerber H, Schmid O, Riecher-Rössler A, Wiesbeck GA, Huber CG, Lang UE, Radue EW, Walter M, Borgwardt S.
Front Psychiatry. 2013 Oct 21;4:135. doi: 10.3389/fpsy.2013.00135.

[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, Van De Ville D, Giannakopoulos P, Lovblad KO.
Neuroscience. 2013 Oct 10;250:364-71. doi: 10.1016/j.neuroscience.2013.07.021. Epub 2013 Jul 19.

[Monitoring of extra-axial brain tumor response to radiotherapy using pseudo-continuous arterial spin labeling images: preliminary results.](#)

Yamamoto T, Kinoshita K, Kosaka N, Sato Y, Shioura H, Takeuchi H, Kimura H.
Magn Reson Imaging. 2013 Oct;31(8):1271-7. doi: 10.1016/j.mri.2013.04.011. Epub 2013 Jul 1.

Perfusion studies other than on the brain

[Renal arterial spin labeling magnetic resonance imaging in normal adults: a study with a 3.0 T scanner.](#)

Zhang F, Zhang XL, Yang L, Shen J, Gao W.

Nan Fang Yi Ke Da Xue Xue Bao. 2013 Oct 20;33(10):1478-82.

[Article in Chinese]

[Functional evaluation of transplanted kidneys using arterial spin labeling MRI.](#)

Heusch P, Wittsack HJ, Blondin D, Ljimini A, Nguyen-Quang M, Martirosian P, Zenginli H, Bilk P, Kröpil P, Heusner TA, Antoch G, Lanzman RS.

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Cerebral blood flow studies

CBF correlation with age

[Developmental changes in resting and functional cerebral blood flow and their relationship to the BOLD response.](#)

Moses P, Dinino M, Hernandez L, Liu TT.

Hum Brain Mapp. 2013 Oct 18. doi: 10.1002/hbm.22394. [Epub ahead of print]

[Regional Cerebral Blood Flow in Children From 3 to 5 Months of Age.](#)

Duncan AF, Caprihan A, Montague EQ, Lowe J, Schrader R, Phillips JP.

AJNR Am J Neuroradiol. 2013 Oct 3. [Epub ahead of print]

[Intrinsic connectivity network mapping in young children during natural sleep.](#)

Manning JH, Courchesne E, Fox PT.

Neuroimage. 2013 Dec;83:288-93. doi: 10.1016/j.neuroimage.2013.05.020. Epub 2013 May 29.

[Altered cerebral perfusion in executive, affective, and motor networks during adolescent depression.](#)

Ho TC, Wu J, Shin DD, Liu TT, Tapert SF, Yang G, Connolly CG, Frank GK, Max JE, Wolkowitz O, Eisendrath S, Hoeft F, Banerjee D, Hood K, Hendren RL, Paulus MP, Simmons AN, Yang TT.

J Am Acad Child Adolesc Psychiatry. 2013 Oct;52(10):1076-1091.e2. doi: 10.1016/j.jaac.2013.07.008. Epub 2013 Jul 25.

[Atlas-based and DTI-guided quantification of human brain cerebral blood flow: feasibility, quality assurance, spatial heterogeneity and age effects.](#)

Hasan KM, Ali H, Shad MU.

Magn Reson Imaging. 2013 Oct;31(8):1445-52. doi: 10.1016/j.mri.2013.04.010. Epub 2013 Jun 2.

[Neural mechanisms of age-related slowing: the \$\Delta\$ CBF/ \$\Delta\$ CMRO₂ ratio mediates age-differences in BOLD signal and human performance.](#)

Hutchison JL, Lu H, Rypma B.

Cereb Cortex. 2013 Oct;23(10):2337-46. doi: 10.1093/cercor/bhs233. Epub 2012 Aug 8.

[Regional cerebral blood flow and FDG uptake in asymptomatic HIV-1 men.](#)

Towgood KJ, Pitkanen M, Kulasegaram R, Fradera A, Soni S, Sibtain N, Reed LJ, Bradbeer C, Barker GJ, Dunn JT, Zelaya F, Kopelman MD.

Hum Brain Mapp. 2013 Oct;34(10):2484-93. doi: 10.1002/hbm.22078. Epub 2012 Apr 12.

CBF regional comparison/ Regional ASL

[In vivo visualization of the PICA perfusion territory with super-selective pseudo-continuous arterial spin labeling MRI.](#)

Hartkamp NS, De Cocker LJ, Helle M, van Osch MJ, Kappelle LJ, Bokkers RP, Hendrikse J. Neuroimage. 2013 Dec;83:58-65. doi: 10.1016/j.neuroimage.2013.06.070. Epub 2013 Jun 29.

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[Perfusion Imaging of Focal Cortical Dysplasia Using Arterial Spin Labeling: Correlation With Histopathological Vascular Density.](#)

Wintermark P, Lechpammer M, Warfield SK, Kosaras B, Takeoka M, Poduri A, Madsen JR, Bergin AM, Whalen S, Jensen FE.
J Child Neurol. 2013 Nov;28(11):1474-1482. Epub 2013 May 21.

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Studies on special disease

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J Magn Reson Imaging. 2013 Oct 7. doi: 10.1002/jmri.24336. [Epub ahead of print]

[Clinical phenotype-specific differences in cerebral haemodynamics in idiopathic Parkinson's disease.](#)

Al-Bachari S, Parkes L, Vidyasagar R, Hanby M, Tharaken V, Leroi I, Emsley H.
J Neurol Neurosurg Psychiatry. 2013 Nov;84(11):e2. doi: 10.1136/jnnp-2013-306573.169.

[A two-stage model for in vivo assessment of brain tumor perfusion and abnormal vascular structure using arterial spin labeling.](#)

Hales PW, Phipps KP, Kaur R, Clark CA.
PLoS One. 2013 Oct 2;8(10):e75717. doi: 10.1371/journal.pone.0075717.

[Detection of preclinically latent hyperperfusion due to stroke-like episodes by arterial spin-labeling perfusion MRI in MELAS patients.](#)

Ikawa M, Yoneda M, Muramatsu T, Matsunaga A, Tsujikawa T, Yamamoto T, Kosaka N, Kinoshita K, Yamamura O, Hamano T, Nakamoto Y, Kimura H.
Mitochondrion. 2013 Oct 2;13(6):676-680. doi: 10.1016/j.mito.2013.09.007. [Epub ahead of print]

[Evaluation of tumor blood flow after feeder embolization in meningiomas by arterial spin-labeling perfusion magnetic resonance imaging.](#)

Kawaji H, Koizumi S, Sakai N, Yamasaki T, Hiramatsu H, Kanoko Y, Kamiya M, Yamashita S, Takehara Y, Sakahara H, Namba H.
J Neuroradiol. 2013 Oct;40(4):303-6. doi: 10.1016/j.neurad.2013.04.005. Epub 2013 Oct 4.

[Quantitative analysis of hypoperfusion in acute stroke: arterial spin labeling versus dynamic susceptibility contrast.](#)

Nael K, Meshksar A, Liebeskind DS, Coull BM, Krupinski EA, Villablanca JP.
Stroke. 2013 Nov;44(11):3090-6. doi: 10.1161/STROKEAHA.113.002377. Epub 2013 Aug

[Tumor blood flow from arterial spin labeling perfusion MRI: A key parameter in distinguishing high-grade gliomas from primary cerebral lymphomas, and in predicting genetic biomarkers in high-grade gliomas.](#)

Yoo RE, Choi SH, Cho HR, Kim TM, Lee SH, Park CK, Park SH, Kim IH, Yun TJ, Kim JH, Sohn CH, Han MH, Chang KH.
J Magn Reson Imaging. 2013 Oct;38(4):852-60. doi: 10.1002/jmri.24026. Epub 2013 Feb

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[3 TESLA MR imaging in adults with focal onset epilepsy.](#)

Toledo M, Sarria-Estrada S, Quintana M, Auger C, Salas-Puig X, Santamarina E, Vert C, Rovira A.
Clin Neurol Neurosurg. 2013 Oct;115(10):2111-6. doi: 10.1016/j.clineuro.2013.07.039. Epub 2013 Aug 7.

[Application of Multimodal MR Imaging on Studying Alzheimer's Disease: A Survey.](#)

Wang D, Hui SC, Shi L, Huang WH, Wang T, Mok VC, Chu WC, Ahuja AT.
Curr Alzheimer Res. 2013 Oct;10(8):877-92.

[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 Nov;82(11):1981-8. doi: 10.1016/j.ejrad.2013.06.002. Epub 2013 Jul 9.

[Effect of delayed transit time on arterial spin labeling: correlation with dynamic susceptibility contrast perfusion magnetic resonance in moyamoya disease.](#)

Yun TJ, Sohn CH, Han MH, Kang HS, Kim JE, Yoon BW, Paeng JC, Choi SH, Kim JH, Song IC, Chang KH.
Invest Radiol. 2013 Nov;48(11):795-802. doi: 10.1097/RLI.0b013e3182981137.

[A selective insular perfusion deficit contributes to compromised salience network connectivity in recovering alcoholic men.](#)

Sullivan EV, Müller-Oehring E, Pitel AL, Chanraud S, Shankaranarayanan A, Alsop DC, Rohlfing T, Pfefferbaum A.
Biol Psychiatry. 2013 Oct 1;74(7):547-55. doi: 10.1016/j.biopsych.2013.02.026. Epub 2013 Apr 12.

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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. 2013 Oct 16. [Epub ahead of print]

[Dynamic and static contributions of the cerebrovasculature to the resting-state BOLD signal.](#)

Tak S, Wang DJ, Polimeni JR, Yan L, Chen JJ.
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[Life-long aerobic exercise preserved baseline cerebral blood flow but reduced vascular reactivity to CO₂.](#)

Thomas BP, Yezhuvath US, Tseng BY, Liu P, Levine BD, Zhang R, Lu H.
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[Time-on-task and sleep deprivation effects are evidenced in overlapping brain areas.](#)

Asplund CL, Chee MW.
Neuroimage. 2013 Nov 15;82:326-35. doi: 10.1016/j.neuroimage.2013.05.119. Epub 2013 Jun 6.

[Quantification of Network Perfusion in ASL Cerebral Blood Flow Data with Seed Based and ICA Approaches.](#)

Jann K, Orosz A, Dierks T, Wang DJ, Wiest R, Federspiel A.
Brain Topogr. 2013 Oct;26(4):569-80. doi: 10.1007/s10548-013-0280-3. Epub 2013 Mar 19.

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ASL Data Analysis/ Comparison of ASL Evaluation Methods/ Kinetic Models

[The Cerebral Blood Flow Biomedical Informatics Research Network \(CBFBIRN\) database and analysis pipeline for arterial spin labeling MRI data.](#)

Shin DD, Ozyurt IB, Liu TT.

Front Neuroinform. 2013 Oct 18;7:21. doi: 10.3389/fninf.2013.00021.

[Perfusion quantification by model-free arterial spin labeling using nonlinear stochastic regularization deconvolution.](#)

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

Magn Reson Med. 2013 Nov;70(5):1470-80. doi: 10.1002/mrm.24587. Epub 2012 Dec 27.

[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 Nov 1;81:121-30. doi: 10.1016/j.neuroimage.2013.04.079. Epub 2013 May 10.

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ASL Databases and Data Sharing

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Front Neuroinform. 2013 Oct 18;7:21. doi: 10.3389/fninf.2013.00021.

Technical Improvement/ Parameter Optimisation/ Theoretical Papers

[Regional perfusion imaging using pTILT.](#)

Ouyang C, Sutton BP.

J Magn Reson Imaging. 2013 Oct 17. doi: 10.1002/jmri.24346. [Epub ahead of print]

[Arterial spin labeling with simultaneous multi-slice echo planar imaging.](#)

Feinberg DA, Beckett A, Chen L.

Magn Reson Med. 2013 Oct 15. doi: 10.1002/mrm.24994. [Epub ahead of print]

[Noncontrast dynamic 3D intracranial MR angiography using pseudo-continuous arterial spin labeling \(PCASL\) and accelerated 3D radial acquisition.](#)

Wu H, Block WF, Turski PA, Mistretta CA, Rusinak DJ, Wu Y, Johnson KM.

J Magn Reson Imaging. 2013 Oct 15. doi: 10.1002/jmri.24279. [Epub ahead of print]

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

Kopeinigg D, Bammer R.

Magn Reson Med. 2013 Oct 24. doi: 10.1002/mrm.24985. [Epub ahead of print]

[Optimal sampling schedule for chemical exchange saturation transfer.](#)

Tee YK, Khrapitchev AA, Sibson NR, Payne SJ, Chappell MA.

Magn Reson Med. 2013 Nov;70(5):1251-62. doi: 10.1002/mrm.24567. Epub 2013 Jan 11.

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[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 Dec;17(8):1025-36. doi: 10.1016/j.media.2013.06.005. Epub 2013 Jul 4.

[Timing dependence of peripheral pulse-wave-triggered pulsed arterial spin labeling.](#)

Fushimi Y, Okada T, Yamamoto A, Kanagaki M, Fujimoto K, Togashi K.

NMR Biomed. 2013 Nov;26(11):1527-33. doi: 10.1002/nbm.2986. Epub 2013 Jun 20.

Review Paper/ Historical Review

[Application of Multimodal MR Imaging on Studying Alzheimer's Disease: A Survey.](#)

Wang D, Hui SC, Shi L, Huang WH, Wang T, Mok VC, Chu WC, Ahuja AT.

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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