

Dear Colleagues,

Here is the ASL Newsletter No. 33.

Kind regards,
Ina

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

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Pharmacological / Drug studies / Studies on the effects of therapies

[Comparison of CO₂ in air versus carbogen for the measurement of cerebrovascular reactivity with magnetic resonance imaging.](#)

Hare HV, Germuska M, Kelly ME, Bulte DP.

J Cereb Blood Flow Metab. 2013 Aug 7. doi: 10.1038/jcbfm.2013.131. [Epub ahead of print]

[Intranasal insulin increases regional cerebral blood flow in the insular cortex in men independently of cortisol manipulation.](#)

Schilling TM, Ferreira de Sá DS, Westerhausen R, Strelzyk F, Larra MF, Hallschmid M, Savaskan E, Oitzl MS, Busch HP, Naumann E, Schächinger H.

Hum Brain Mapp. 2013 Aug 1. doi: 10.1002/hbm.22304. [Epub ahead of print]

[Prefrontal cortical blood flow predicts response of depression to rTMS.](#)

Weiduschat N, Dubin MJ.

J Affect Disord. 2013 Sep 5;150(2):699-702. doi: 10.1016/j.jad.2013.04.049. Epub 2013 May 22.

Perfusion studies other than on the brain

[Combined measurement of perfusion, venous oxygen saturation, and skeletal muscle T2* during reactive hyperemia in the leg.](#)

Englund EK, Langham MC, Li C, Rodgers ZB, Floyd TF, Mohler ER, Wehrli FW.

J Cardiovasc Magn Reson. 2013 Aug 19;15(1):70. [Epub ahead of print]

[Quantitative assessment of acute kidney injury by noninvasive arterial spin labeling perfusion MRI: a pilot study.](#)

Dong J, Yang L, Su T, Yang X, Chen B, Zhang J, Wang X, Jiang X.

Sci China Life Sci. 2013 Aug;56(8):745-50. doi: 10.1007/s11427-013-4503-3. Epub 2013 Jun 5.

[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.

[The gravitational distribution of ventilation-perfusion ratio is more uniform in prone than supine posture in the normal human lung.](#)

Henderson AC, Sá RC, Theilmann RJ, Buxton RB, Prisk GK, Hopkins SR.

J Appl Physiol. 2013 Aug;115(3):313-24. doi: 10.1152/jappphysiol.01531.2012. Epub 2013 Apr 25.

[Transjugular intrahepatic portosystemic shunt induced short- and long-term cerebral blood flow variations in cirrhotic patients: an arterial spin labeling MRI study.](#)

Zheng G, Zhang LJ, Cao Y, Pan Z, Qi RF, Ni L, Shi D, Fan X, Lu GM.

Metab Brain Dis. 2013 Sep;28(3):463-71. doi: 10.1007/s11011-013-9400-8. Epub 2013

Cerebral blood flow studies

CBF regional comparison

[Regional correlation between resting state FDG PET and pCASL perfusion MRI.](#)

Cha YH, Jog MA, Kim YC, Chakrapani S, Kraman SM, Wang DJ.

J Cereb Blood Flow Metab. 2013 Aug 21. doi: 10.1038/jcbfm.2013.147. [Epub ahead of print]

[Voxel-level comparison of arterial spin-labeled perfusion magnetic resonance imaging in adolescents with internet gaming addiction.](#)

Feng Q, Chen X, Sun J, Zhou Y, Sun Y, Ding W, Zhang Y, Zhuang Z, Xu J, Du Y.

Behav Brain Funct. 2013 Aug 12;9(1):33. [Epub ahead of print]

Studies on special diseases

[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 Aug 7. doi:pii: S0303-8467(13)00286-2.

10.1016/j.clineuro.2013.07.039. [Epub ahead of print]

[Arterial Spin-Labeling Assessment of Normalized Vascular Intratumoral Signal Intensity as a Predictor of Histologic Grade of Astrocytic Neoplasms.](#)

Furtner J, Schöpf V, Schewzow K, Kasprian G, Weber M, Woitek R, Asenbaum U, Preusser M, Marosi C, Hainfellner JA, Widhalm G, Wolfsberger S, Prayer D.

AJNR Am J Neuroradiol. 2013 Aug 14. [Epub ahead of print]

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[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 Aug 6. [Epub ahead of print]

[Arterial Spin-Labeled Perfusion of Pediatric Brain Tumors.](#)

Yeom KW, Mitchell LA, Lober RM, Barnes PD, Vogel H, Fisher PG, Edwards MS.

AJNR Am J Neuroradiol. 2013 Aug 1. [Epub ahead of print]

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May 22.

[Arterial spin-labeling magnetic resonance imaging after revascularization of moyamoya disease.](#)

Sugino T, Mikami T, Miyata K, Suzuki K, Houkin K, Mikuni N.
J Stroke Cerebrovasc Dis. 2013 Aug;22(6):811-6. doi:
10.1016/j.jstrokecerebrovasdis.2012.05.010. Epub 2012 Jun 19.

[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.

[Effects of dietary glycemic index on brain regions related to reward and craving in men.](#)

Lennerz BS, Alsop DC, Holsen LM, Stern E, Rojas R, Ebbeling CB, Goldstein JM, Ludwig DS.
Am J Clin Nutr. 2013 Sep;98(3):641-7. doi: 10.3945/ajcn.113.064113. Epub 2013 Jun 26.

[Quantitative assessment of acute kidney injury by noninvasive arterial spin labeling perfusion MRI: a pilot study.](#)

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Metab Brain Dis. 2013 Sep;28(3):463-71. doi: 10.1007/s11011-013-9400-8. Epub 2013

[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.

Comparison of ASL Techniques or ASL compared with other Imaging methods

[Regional correlation between resting state FDG PET and pCASL perfusion MRI.](#)

Cha YH, Jog MA, Kim YC, Chakrapani S, Kraman SM, Wang DJ.
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[Cerebral blood flow quantification using vessel-encoded arterial spin labeling.](#)

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J Cereb Blood Flow Metab. 2013 Aug 7. doi: 10.1038/jcbfm.2013.129. [Epub ahead of print]

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J Stroke Cerebrovasc Dis. 2013 Aug;22(6):811-6. doi:
10.1016/j.jstrokecerebrovasdis.2012.05.010. Epub 2012 Jun 19.

Functional Imaging / BOLD

[Neural correlates of experimentally induced flow experiences.](#)

Ulrich M, Keller J, Hoenig K, Waller C, Grön G.
Neuroimage. 2013 Aug 16. doi:pii: S1053-8119(13)00873-2.
10.1016/j.neuroimage.2013.08.019. [Epub ahead of print]

[Voxel-level comparison of arterial spin-labeled perfusion magnetic resonance imaging in adolescents with internet gaming addiction.](#)

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J Cereb Blood Flow Metab. 2013 Aug 7. doi: 10.1038/jcbfm.2013.131. [Epub ahead of print]

[A comparison of physiologic modulators of fMRI signals.](#)

Liu P, Hebrank AC, Rodrigue KM, Kennedy KM, Park DC, Lu H.
Hum Brain Mapp. 2013 Sep;34(9):2078-88. doi: 10.1002/hbm.22053. Epub 2012 Mar 28.

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

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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.

Physiological Parameters besides CBF

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

Technical Improvement/ Parameter Optimisation/ Theoretical Papers

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

[Superselective arterial spin labeling applied for flow territory mapping in various cerebrovascular diseases.](#)

Helle M, Rüfer S, van Osch MJ, Nabavi A, Alfke K, Norris DG, Jansen O.

J Magn Reson Imaging. 2013 Aug;38(2):496-503. doi: 10.1002/jmri.24041. Epub 2013 Mar 22.

Cohort Studies

[Neuroimaging of the Philadelphia Neurodevelopmental Cohort.](#)

Satterthwaite TD, Elliott MA, Ruparel K, Loughhead J, Prabhakaran K, Calkins ME, Hopson R, Jackson C, Keefe J, Riley M, Mensh FD, Sleiman P, Verma R, Davatzikos C, Hakonarson H, Gur RC, Gur RE.

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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 Aug;26(8):887-91. doi: 10.1002/nbm.2954. Epub 2013 Jun 3.

[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.

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