

Dear Colleagues,

Here is the ASL Newsletter No. 30.

Kind regards,
Ina

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

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Animal studies

[Cortical atrophy and hypoperfusion in a transgenic mouse model of Alzheimer's disease.](#)

Hébert F, Grand'maison M, Ho MK, Lerch JP, Hamel E, Bedell BJ.

Neurobiol Aging. 2013 Jun;34(6):1644-52. doi: 10.1016/j.neurobiolaging.2012.11.022.

Epub 2012 Dec 27.

Pharmacological / Drug studies

[Mapping the hemodynamic response in human subjects to a dopaminergic challenge with dextroamphetamine using ASL-based pharmacological MRI.](#)

Schouw ML, Kaag AM, Caan MW, Heijtel DF, Majoie CB, Nederveen AJ, Booij J, Reneman L.

Neuroimage. 2013 May 15;72:1-9. doi: 10.1016/j.neuroimage.2012.12.056. Epub 2013

Jan 5.

[Effects of amisulpride on human resting cerebral perfusion.](#)

Viviani R, Graf H, Wiegers M, Abler B.

Psychopharmacology (Berl). 2013 Apr 13. [Epub ahead of print]

Perfusion studies other than on the brain

[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 May 7. doi:pii: S0730-725X(13)00131-8.

10.1016/j.mri.2013.03.024. [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, Prisk GK, Hopkins SR.

J Appl Physiol. 2013 May 2. [Epub ahead of print]

Cerebral blood flow studies

CBF correlation with age

[A BOLD Perspective on Age-Related Neurometabolic-Flow Coupling and Neural Efficiency Changes in Human Visual Cortex.](#)

Hutchison JL, Shokri-Kojori E, Lu H, Rypma B.

Front Psychol. 2013 May 3;4:244. doi: 10.3389/fpsyg.2013.00244. Print 2013.

[Vessel-encoded arterial spin labeling \(VE-ASL\) reveals elevated flow territory asymmetry in older adults with substandard verbal memory performance.](#)

Donahue MJ, Hussey E, Rane S, Wilson T, van Osch M, Hartkamp N, Hendrikse J, Ally BA.

J Magn Reson Imaging. 2013 Apr 30. doi: 10.1002/jmri.24150. [Epub ahead of print]

CBF regional comparison

[Anteroposterior perfusion heterogeneity in human hippocampus measured by arterial spin labeling MRI.](#)

Li X, Sarkar SN, Purdy DE, Spence JS, Haley RW, Briggs RW.
NMR Biomed. 2013 Jun;26(6):613-21. doi: 10.1002/nbm.2898. Epub 2013 Feb 19.

Studies on special diseases

[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 May 21. [Epub ahead of print]

[Comparative Evaluation of 3-Dimensional Pseudocontinuous Arterial Spin Labeling With Dynamic Contrast-Enhanced Perfusion Magnetic Resonance Imaging in Grading of Human Glioma.](#)

Roy B, Awasthi R, Bindal A, Sahoo P, Kumar R, Behari S, Ojha BK, Husain N, Pandey CM, Rathore RK, Gupta RK.
J Comput Assist Tomogr. 2013 May/June;37(3):321-326.

[Correlation between Topographic N400 Anomalies and Reduced Cerebral Blood Flow in the Anterior Temporal Lobes of Patients with Dementia.](#)

Grieder M, Crinelli RM, Jann K, Federspiel A, Wirth M, Koenig T, Stein M, Wahlund LO, Dierks T.
J Alzheimers Dis. 2013 May 10. [Epub ahead of print]

[Intensive blood pressure lowering increases cerebral blood flow in older subjects with hypertension.](#)

Tryambake D, He J, Firbank MJ, O'Brien JT, Blamire AM, Ford GA.
Hypertension. 2013 Jun;61(6):1309-15. doi: 10.1161/HYPERTENSIONAHA.112.200972. Epub 2013 Mar 25.

[Cerebral hyperperfusion syndrome after revascularization surgery in patients with moyamoya disease.](#)

Zhao WG, Luo Q, Jia JB, Yu JL.
Br J Neurosurg. 2013 Jun;27(3):321-5. doi: 10.3109/02688697.2012.757294. Epub 2013 Mar 5.

[Changes in cerebral blood flow and vasoreactivity to CO2 measured by arterial spin labeling after 6days at 4350m.](#)

Villien M, Bouzat P, Rupp T, Robach P, Lamalle L, Troprès I, Estève F, Krainik A, Lévy P, Warnking JM, Verges S.
Neuroimage. 2013 May 15;72:272-9. doi: 10.1016/j.neuroimage.2013.01.066. Epub 2013 Feb 4.

[Pain response measured with arterial spin labeling.](#)

Maleki N, Brawn J, Barmettler G, Borsook D, Becerra L.
NMR Biomed. 2013 Jun;26(6):664-73. doi: 10.1002/nbm.2911. Epub 2013 Jan 15.

[Cortical atrophy and hypoperfusion in a transgenic mouse model of Alzheimer's disease.](#)
Hébert F, Grand'maison M, Ho MK, Lerch JP, Hamel E, Bedell BJ.
Neurobiol Aging. 2013 Jun;34(6):1644-52. doi: 10.1016/j.neurobiolaging.2012.11.022.
Epub 2012 Dec 27.

[Arterial spin labeling \(ASL\) magnetic resonance imaging in acute confusional migraine of childhood.](#)

Kossorotoff M, Calmon R, Grevent D, Gitiaux C, Desguerre I, Heilbronner C, Uettwiller M, Savard S, Brunelle F, Boddaert N.
J Neuroradiol. 2013 May;40(2):142-4. doi: 10.1016/j.neurad.2012.03.004. Epub 2012 May 24. No abstract available.

[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.

[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 Apr 24. doi:pii: S0730-725X(13)00109-4.
10.1016/j.mri.2013.03.023. [Epub ahead of print]

[Perfusion Deficits Detected by Arterial Spin-Labeling in Patients with TIA with Negative Diffusion and Vascular Imaging.](#)

Qiao XJ, Salamon N, Wang DJ, He R, Linetsky M, Ellingson BM, Pope WB.
AJNR Am J Neuroradiol. 2013 May 30. [Epub ahead of print]

Comparison of ASL Techniques or ASL compared with other Imaging methods

[Comparison of three-dimensional pseudo-continuous arterial spin labeling perfusion imaging with gradient-echo and spin-echo dynamic susceptibility contrast MRI.](#)

Wong AM, Yan FX, Liu HL.
J Magn Reson Imaging. 2013 May 15. doi: 10.1002/jmri.24178. [Epub ahead of print]

[Comparative Evaluation of 3-Dimensional Pseudocontinuous Arterial Spin Labeling With Dynamic Contrast-Enhanced Perfusion Magnetic Resonance Imaging in Grading of Human Glioma.](#)

Roy B, Awasthi R, Bindal A, Sahoo P, Kumar R, Behari S, Ojha BK, Husain N, Pandey CM, Rathore RK, Gupta RK.
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Functional Imaging / BOLD

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Front Psychol. 2013 May 3;4:244. doi: 10.3389/fpsyg.2013.00244. Print 2013.

[Amygdala functional connectivity is reduced after the cold pressor task.](#)

Clewett D, Schoeke A, Mather M.
Cogn Affect Behav Neurosci. 2013 May 4. [Epub ahead of print]

[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 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]

Physiological Parameters besides CBF

[Per-subject characterization of bolus width in pulsed arterial spin labeling using bolus turbo sampling.](#)

Villien M, Chipon E, Troprès I, Bouvier J, Cantin S, Chechin D, Le Bas JF, Krainik A, Warnking JM.

Magn Reson Med. 2013 Jun;69(6):1677-82. doi: 10.1002/mrm.24412. Epub 2012 Jul 24.

Reproducibility studies

[Intra- and interscanner reliability and reproducibility of 3D whole-brain pseudo-continuous arterial spin-labeling MR perfusion at 3T.](#)

Wu B, Lou X, Wu X, Ma L.

J Magn Reson Imaging. 2013 May 30. doi: 10.1002/jmri.24175. [Epub ahead of print]

Technical Improvement/ Parameter Optimisation/ Theoretical Papers

[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 May 7. doi:pii: S0730-725X(13)00131-8. 10.1016/j.mri.2013.03.024. [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 May 24. [Epub ahead of print]

[Per-subject characterization of bolus width in pulsed arterial spin labeling using bolus turbo sampling.](#)

Villien M, Chipon E, Troprès I, Bouvier J, Cantin S, Chechin D, Le Bas JF, Krainik A, Warnking JM.

Magn Reson Med. 2013 Jun;69(6):1677-82. doi: 10.1002/mrm.24412. Epub 2012 Jul 24.

[Comparing model-based and model-free analysis methods for QUASAR arterial spin labeling perfusion quantification.](#)

Chappell MA, Woolrich MW, Petersen ET, Golay X, Payne SJ.

Magn Reson Med. 2013 May;69(5):1466-75. doi: 10.1002/mrm.24372. Epub 2012 Jun 18.

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