

Dear Colleagues.

Here is the ASL Newsletter No. 21.

Please remember the deadline for the contest from the cost Action of *the best ASL image with highest resolution*. Further information can be found in the last newsletter or on the ASL Network Homepage.

Further we like to invite everyone to the **ASL network dinner** at the ESMRMB in Lisbon on Wednesday 3rd October 2012, starting at 8pm. Since we have not fixed a location yet, we cannot name the price for dinner, but we will try to keep it in the range of 25 to 30 Euros per person.

If you know that you will attend the dinner, please send an email to editor@asl-network.org until September 17th. It would be of help for us if you signed up early, making it easier for us to find a suitable location. Please also tell us if you would like a vegetarian meal and if you require a receipt for the dinner.

Further details will follow soon.

Cheers,
Ina and Johanna

Recent publications August 2012, (e-publications might have been earlier):

Content:

Animal studies	2
Pharmacological / Drug studies	2
Perfusion studies other than on the brain	2
Cerebral blood flow studies	3
CBF correlation with age.....	3
Studies on special diseases	3
Single case study	4
Comparison of ASL Techniques or ASL compared with other imaging methods	4
Functional Imaging / BOLD	5
Technical Improvement/ Parameter Optimisation/ Theoretical Papers	5
Kinetic Modules	6
Review Paper/ Historical Review	6
Job offerings	6
Feature articles.....	6

Animal studies

[Arterial spin labeling blood flow magnetic resonance imaging for evaluation of renal injury.](#)

Liu YP, Song R, Liang CH, Chen X, Liu B.

Am J Physiol Renal Physiol. 2012 Aug;303(4):F551-8. Epub 2012 May 30.

[Simultaneous measurement of cerebral blood flow and transit time with turbo dynamic arterial spin labeling \(Turbo-DASL\): Application to functional studies.](#)

Meng Y, Wang P, Kim SG.

Magn Reson Med. 2012 Sep;68(3):762-71. doi: 10.1002/mrm.23294. Epub 2011 Dec 9.

[Unique in utero identification of fetuses in multifetal mouse pregnancies by placental bidirectional arterial spin labeling MRI.](#)

Avni R, Raz T, Biton IE, Kalchenko V, Garbow JR, Neeman M.

Magn Reson Med. 2012 Aug;68(2):560-70. doi: 10.1002/mrm.23246. Epub 2011 Dec 8.

Pharmacological / Drug studies

[Altered cerebral blood flow and neurocognitive correlates in adolescent cannabis users.](#)

Jacobus J, Goldenberg D, Wierenga CE, Tolentino NJ, Liu TT, Tapert SF.

Psychopharmacology (Berl). 2012 Aug;222(4):675-84. Epub 2012 Mar 7.

[Mapping serotonergic dysfunction in MDMA \(ecstasy\) users using pharmacological MRI.](#)

Schouw ML, Gevers S, Caan MW, Majoie CB, Booij J, Nederveen AJ, Reneman L.

Eur Neuropsychopharmacol. 2012 Aug;22(8):537-45. Epub 2011 Dec 29.

[Using arterial spin labeling perfusion MRI to explore how midazolam produces anterograde amnesia.](#)

Liang P, Manelis A, Liu X, Aizenstein HJ, Gyulai F, Quinlan JJ, Reder LM.

Neurosci Lett. 2012 Aug 1;522(2):113-7. Epub 2012 Jun 16.

Perfusion studies other than on the brain

[Arterial spin labeling blood flow magnetic resonance imaging for evaluation of renal injury.](#)

Liu YP, Song R, Liang CH, Chen X, Liu B.

Am J Physiol Renal Physiol. 2012 Aug;303(4):F551-8. Epub 2012 May 30.

[Evaluation of renal blood flow using multi-phase echo-planar magnetic resonance imaging and signal targeting with alternating radiofrequency \(EPISTAR\) in 3-T magnetic resonance imaging.](#)

Sugimori H, Nakanishi M, Fujima N, Ishizaka K, Mito S, Hamaguchi H, Sakata M.

Radiol Phys Technol. 2012 Aug 7. [Epub ahead of print]

[Histogram analysis of renal arterial spin labeling perfusion data reveals differences between volunteers and patients with mild chronic kidney disease.](#)

Rossi C, Artunc F, Martirosian P, Schlemmer HP, Schick F, Boss A.

Invest Radiol. 2012 Aug;47(8):490-6.

Cerebral blood flow studies

[Cerebral perfusion differences between drowsy and nondrowsy individuals after acute sleep restriction.](#)

Poudel GR, Innes CR, Jones RD.
Sleep. 2012 Aug 1;35(8):1085-96.

[Hypoglycemia-induced increases in thalamic cerebral blood flow are blunted in subjects with type 1 diabetes and hypoglycemia unawareness.](#)

Mangia S, Tesfaye N, De Martino F, Kumar AF, Kollasch P, Moheet AA, Eberly LE, Seaquist ER.
J Cereb Blood Flow Metab. 2012 Aug 15. doi: 10.1038/jcbfm.2012.117. [Epub ahead of print]

[T2'- and PASL-based perfusion mapping at 3 Tesla: influence of oxygen-ventilation on cerebral autoregulation.](#)

Wagner M, Magerkurth J, Volz S, Jurcoane A, Singer OC, Neumann-Haefelin T, Zanella FE, Deichmann R, Hattingen E.
J Magn Reson Imaging. 2012 Aug 21. doi: 10.1002/jmri.23777. [Epub ahead of print]

CBF correlation with age

[Arterial spin labeling MRI study of age and gender effects on brain perfusion hemodynamics.](#)

Liu Y, Zhu X, Feinberg D, Guenther M, Gregori J, Weiner MW, Schuff N.
Magn Reson Med. 2012 Sep;68(3):912-22. doi: 10.1002/mrm.23286. Epub 2011 Dec 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. 2012 Aug 8. [Epub ahead of print]

Studies on special diseases

[A quantitative method for correlating observations of decreased apparent diffusion coefficient with elevated cerebral blood perfusion in newborns presenting cerebral ischemic insults.](#)

Pienaar R, Paldino MJ, Madan N, Krishnamoorthy KS, Alsop DC, Dehaes M, Grant PE.
Neuroimage. 2012 Aug 7. [Epub ahead of print]

[Arterial Spin Labeling Identifies Tissue Salvage and Good Clinical Recovery After Acute Ischemic Stroke.](#)

Bivard A, Stanwell P, Levi C, Parsons M.
J Neuroimaging. 2012 Aug 22. doi: 10.1111/j.1552-6569.2012.00728.x. [Epub ahead of print]

[Arterial spin labeling MRI: an emerging biomarker for Alzheimer's disease and other neurodegenerative conditions.](#)

Wolk DA, Detre JA.
Curr Opin Neurol. 2012 Aug;25(4):421-8.

[Arterial spin labeling of hemangioblastoma: differentiation from metastatic brain tumors based on quantitative blood flow measurement.](#)

Yamashita K, Yoshiura T, Hiwatashi A, Togao O, Yoshimoto K, Suzuki SO, Kikuchi K, Mizoguchi M, Iwaki T, Honda H.

Neuroradiology. 2012 Aug;54(8):809-13. Epub 2011 Nov 10.

[Effect of mild cognitive impairment and APOE genotype on resting cerebral blood flow and its association with cognition.](#)

Wierenga CE, Dev SI, Shin DD, Clark LR, Bangen KJ, Jak AJ, Rissman RA, Liu TT, Salmon DP, Bondi MW.

J Cereb Blood Flow Metab. 2012 Aug;32(8):1589-99. doi: 10.1038/jcbfm.2012.58. Epub 2012 May 2.

[Histogram analysis of renal arterial spin labeling perfusion data reveals differences between volunteers and patients with mild chronic kidney disease.](#)

Rossi C, Artunc F, Martirosian P, Schlemmer HP, Schick F, Boss A.

Invest Radiol. 2012 Aug;47(8):490-6.

[Increased ventricular lactate in chronic fatigue syndrome. III. Relationships to cortical glutathione and clinical symptoms implicate oxidative stress in disorder pathophysiology.](#)

Shungu DC, Weiduschat N, Murrrough JW, Mao X, Pillemer S, Dyke JP, Medow MS, Natelson BH, Stewart JM, Mathew SJ.

NMR Biomed. 2012 Sep;25(9):1073-87. doi: 10.1002/nbm.2772. Epub 2012 Jan 27.

[Reduced CBF within the default mode network and within total grey matter in major depression.](#)

Orosz A, Jann K, Federspiel A, Horn H, Höfle O, Dierks T, Wiest R, Strik W, Müller TJ, Walther S.

Brain Connect. 2012 Aug 28. [Epub ahead of print]

Single case study

[Evaluation of cerebellar mutism by arterial spin-labeling perfusion magnetic resonance imaging in a patient with atypical teratoid/rhabdoid tumor \(AT/RT\): a case report.](#)

Watanabe Y, Yamasaki F, Nakamura K, Kajiwara Y, Takayasu T, Nosaka R, Sugiyama K, Kobayashi M, Kurisu K.

Childs Nerv Syst. 2012 Aug;28(8):1257-60. Epub 2012 Apr 4. No abstract available.

Comparison of ASL Techniques or ASL compared with other imaging methods

[Comparison of pulsed and pseudocontinuous arterial spin-labeling for measuring CO\(2\) - induced cerebrovascular reactivity.](#)

Tancredi FB, Gauthier CJ, Madjar C, Bolar DS, Fisher JA, Wang DJ, Hoge RD.

J Magn Reson Imaging. 2012 Aug;36(2):312-21. doi: 10.1002/jmri.23658. Epub 2012 Apr 27.

Functional Imaging / BOLD

[Comparison of pulsed and pseudocontinuous arterial spin-labeling for measuring CO\(2\) - induced cerebrovascular reactivity.](#)

Tancredi FB, Gauthier CJ, Madjar C, Bolar DS, Fisher JA, Wang DJ, Hoge RD.
J Magn Reson Imaging. 2012 Aug;36(2):312-21. doi: 10.1002/jmri.23658. Epub 2012 Apr 27.

[Functional arterial spin labeling: Optimal sequence duration for motor activation mapping in clinical practice.](#)

Raoult H, Ferré JC, Petr J, Bannier E, Stamm A, Barillot C, Gauvrit JY.
J Magn Reson Imaging. 2012 Aug 24. doi: 10.1002/jmri.23782. [Epub ahead of print]

[Measuring brain oxygenation in humans using a multiparametric quantitative blood oxygenation level dependent MRI approach.](#)

Christen T, Schmiedeskamp H, Straka M, Bammer R, Zaharchuk G.
Magn Reson Med. 2012 Sep;68(3):905-11. doi: 10.1002/mrm.23283. Epub 2011 Dec

[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. 2012 Aug 8. [Epub ahead of print]

[Quantitative Changes in Regional Cerebral Blood Flow Induced by Cold, Heat and Ischemic Pain: A Continuous Arterial Spin Labeling Study.](#)

Frölich MA, Deshpande H, Ness T, Deutsch G.
Anesthesiology. 2012 Aug 21. [Epub ahead of print]

[Separating neural and vascular effects of caffeine using simultaneous EEG-fMRI: differential effects of caffeine on cognitive and sensorimotor brain responses.](#)

Diukova A, Ware J, Smith JE, Evans CJ, Murphy K, Rogers PJ, Wise RG.
Neuroimage. 2012 Aug 1;62(1):239-49. Epub 2012 Apr 28.

[The BOLD post-stimulus undershoot, one of the most debated issues in fMRI.](#)

van Zijl PC, Hua J, Lu H.
Neuroimage. 2012 Aug 15;62(2):1092-102. Epub 2012 Jan 9.

Technical Improvement/ Parameter Optimisation/ Theoretical Papers

[Quantitative assessment of external carotid artery territory supply with modified vessel-encoded arterial spin-labeling.](#)

Dang Y, Wu B, Sun Y, Mo D, Wang X, Zhang J, Fang J.
AJNR Am J Neuroradiol. 2012 Aug;33(7):1380-6. Epub 2012 Feb 16.

Kinetic Modules

[A kinetic model for vessel-encoded dynamic angiography with arterial spin labeling.](#)

Okell TW, Chappell MA, Schulz UG, Jezzard P.

Magn Reson Med. 2012 Sep;68(3):969-79. doi: 10.1002/mrm.23311. Epub 2012 Jan 13.

Review Paper/ Historical Review

[Arterial spin labeling MRI: an emerging biomarker for Alzheimer's disease and other neurodegenerative conditions.](#)

Wolk DA, Detre JA.

Curr Opin Neurol. 2012 Aug;25(4):421-8.

[Early development of arterial spin labeling to measure regional brain blood flow by MRI.](#)

Koretsky AP.

Neuroimage. 2012 Aug 15;62(2):602-7. Epub 2012 Jan 8.

[Non-contrast enhanced MR angiography: Physical principles.](#)

Wheaton AJ, Miyazaki M.

J Magn Reson Imaging. 2012 Aug;36(2):286-304. doi: 10.1002/jmri.23641.

[Record of a single fMRI experiment in May of 1991.](#)

Kwong KK.

Neuroimage. 2012 Aug 15;62(2):610-2. Epub 2011 Aug 3.

[The BOLD post-stimulus undershoot, one of the most debated issues in fMRI.](#)

van Zijl PC, Hua J, Lu H.

Neuroimage. 2012 Aug 15;62(2):1092-102. Epub 2012 Jan 9.

Job offerings

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

Feature articles

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