

Dear Colleagues.

Here is the ASL Newsletter No. 9. I am happy that I received contributions from your side.

I again like to remind you of the network meeting at the ISMRM in Montreal on Wednesday May 11, at 21:00 (9pm). More details are found on the web page. www.asl-network.org

See you soon,
Johanna

Recent publications March & April 2011, (e-publications might have been earlier):

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Animal studies

[Chronic hyperperfusion and angiogenesis follow subacute hypoperfusion in the thalamus of rats with focal cerebral ischemia.](#)

Hayward NM, Yanev P, Haapasalo A, Miettinen R, Hiltunen M, Gröhn O, Jolkkonen J. J Cereb Blood Flow Metab. 2011 Apr;31(4):1119-32. Epub 2010 Nov 17.

[Measuring perfusion and bioenergetics simultaneously in mouse skeletal muscle: a multiparametric functional-NMR approach.](#)

Baligand C, Wary C, Ménard JC, Giacomini E, Hogrel JY, Carlier PG. NMR Biomed. 2011 Apr;24(3):281-90. doi: 10.1002/nbm.1587. Epub 2010 Sep 22.

[Noninvasive MRI measures of microstructural and cerebrovascular changes during normal Swine brain development.](#)

Winter JD, Dorner S, Lukovic J, Fisher JA, St Lawrence KS, Kassner A. Pediatr Res. 2011 May;69(5 Pt 1):418-24.

[Sustained reperfusion after blockade of glycoprotein-receptor-ib in focal cerebral ischemia: an MRI study at 17.6 tesla.](#)

Pham M, Helluy X, Kleinschnitz C, Kraft P, Bartsch AJ, Jakob P, Nieswandt B, Bendszus M, Stoll G. PLoS One. 2011 Apr 1;6(4):e18386.

Pharmacological studies

[Cerebrovascular reactivity within perfusion territories in patients with an internal carotid artery occlusion.](#)

Bokkers RP, van Osch MJ, Klijn CJ, Kappelle LJ, Hendrikse J. J Neurol Neurosurg Psychiatry. 2011 Mar 8. [Epub ahead of print]

[Evidence for involvement of the insula in the psychotropic effects of THC in humans: a double-blind, randomized pharmacological MRI study.](#)

van Hell HH, Bossong MG, Jager G, Kristo G, van Osch MJ, Zelaya F, Kahn RS, Ramsey NF. Int J Neuropsychopharmacol. 2011 Apr 14:1-12. [Epub ahead of print]

[Potentials and challenges for arterial spin labeling in pharmacological magnetic resonance imaging.](#)

Wang DJ, Chen Y, Fernández-Seara MA, Detre JA. J Pharmacol Exp Ther. 2011 May;337(2):359-66. Epub 2011 Feb 11.

Perfusion studies other than on the brain

[The Effect of Hypercarbia and Hyperoxia on the Total Blood Flow to the Retina as Assessed by Magnetic Resonance Imaging.](#)

Maleki N, Alsop DC, Dai W, Hudson C, Han JS, Fisher J, Mikulis D.
Invest Ophthalmol Vis Sci. 2011 Mar 29. [Epub ahead of print]

Integrative Study

[Quantifying the Link between Anatomical Connectivity, Gray Matter Volume and Regional Cerebral Blood Flow: An Integrative MRI Study.](#)

Várkuti B, Cavusoglu M, Kullik A, Schiffler B, Veit R, Yilmaz O, Rosenstiel W, Braun C, Uludag K, Birbaumer N, Sitaram R.
PLoS One. 2011 Apr 15;6(4):e14801.

Cerebral blood flow studies

[Sensitivity calibration with a uniform magnetization image to improve arterial spin labeling perfusion quantification.](#)

Dai W, Robson PM, Shankaranarayanan A, Alsop DC.
Magn Reson Med. 2011 Apr 26. doi: 10.1002/mrm.22954. [Epub ahead of print]

CBF correlation with age

[Noninvasive MRI measures of microstructural and cerebrovascular changes during normal Swine brain development.](#)

Winter JD, Dorner S, Lukovic J, Fisher JA, St Lawrence KS, Kassner A.
Pediatr Res. 2011 May;69(5 Pt 1):418-24.

Reproducibility study

[Robustness and Reproducibility of Flow Territories Defined by Planning-Free Vessel-Encoded Pseudocontinuous Arterial Spin-Labeling.](#)

Gevers S, Bokkers RP, Hendrikse J, Majoie CB, Kies DA, Teeuwisse WM, Nederveen AJ, van Osch MJ.
AJNR Am J Neuroradiol. 2011 Mar 10. [Epub ahead of print]

Studies on special diseases

[Altered cerebral blood flow patterns associated with pathologic worry in the elderly.](#)

Andreescu C, Gross JJ, Lenze E, Edelman KD, Snyder S, Tanase C, Aizenstein H.
Depress Anxiety. 2011 Mar;28(3):202-9. doi: 10.1002/da.20799.

[Arterial spin labelling reveals an abnormal cerebral perfusion pattern in Parkinson's disease.](#)

Melzer TR, Watts R, Macaskill MR, Pearson JF, Rieger S, Pitcher TL, Livingston L, Graham C, Keenan R, Shankaranarayanan A, Alsop DC, Dalrymple-Alford JC, Anderson TJ. Brain. 2011 Mar;134(Pt 3):845-55. Epub 2011 Feb 9.

[Cerebral blood flow by arterial spin labeling in poststroke dementia.](#)

Firbank MJ, He J, Blamire AM, Singh B, Danson P, Kalaria RN, O'Brien JT. Neurology. 2011 Apr 26;76(17):1478-84.

[Cerebrovascular reactivity within perfusion territories in patients with an internal carotid artery occlusion.](#)

Bokkers RP, van Osch MJ, Klijn CJ, Kappelle LJ, Hendrikse J. J Neurol Neurosurg Psychiatry. 2011 Mar 8. [Epub ahead of print]

[Distribution of cerebral blood flow in the caudate nucleus, lentiform nucleus and thalamus in patients with carotid artery stenosis.](#)

Hartkamp NS, Bokkers RP, van der Worp HB, van Osch MJ, Kappelle LJ, Hendrikse J. Eur Radiol. 2011 Apr;21(4):875-81. Epub 2010 Sep 18.

[Early evaluation of tumoral response to antiangiogenic therapy by arterial spin labeling perfusion magnetic resonance imaging and susceptibility weighted imaging in a patient with recurrent glioblastoma receiving bevacizumab.](#)

Fellah S, Girard N, Chinot O, Cozzone PJ, Callot V. J Clin Oncol. 2011 Apr 10;29(11):e308-11. Epub 2011 Jan 24. No abstract available.

[Intracranial hemodynamics is altered by carotid artery disease and after endarterectomy: a dynamic magnetic resonance angiography study.](#)

Macintosh BJ, Sideso E, Donahue MJ, Chappell MA, Günther M, Handa A, Kennedy J, Jezzard P. Stroke. 2011 Apr;42(4):979-84. Epub 2011 Feb 24.

[Perfusion deficit to cholinergic challenge in veterans with Gulf War Illness.](#)

Liu P, Aslan S, Li X, Buhner DM, Spence JS, Briggs RW, Haley RW, Lu H. Neurotoxicology. 2011 Mar;32(2):242-6. Epub 2010 Dec 13.

[Posterior hypoperfusion in parkinson's disease With and without dementia measured with arterial spin labeling MRI.](#)

Kamagata K, Motoi Y, Hori M, Suzuki M, Nakanishi A, Shimoji K, Kyougoku S, Kuwatsuru R, Sasai K, Abe O, Mizuno Y, Aoki S, Hattori N. J Magn Reson Imaging. 2011 Apr;33(4):803-7. doi: 10.1002/jmri.22515.

[Resting state cerebral blood flow and objective motor activity reveal basal ganglia dysfunction in schizophrenia.](#)

Walther S, Federspiel A, Horn H, Razavi N, Wiest R, Dierks T, Strik W, Müller TJ. Psychiatry Res. 2011 Apr 19. [Epub ahead of print]

[The search for neuroimaging biomarkers of Alzheimer's disease with advanced MRI techniques.](#)

Li TQ, Wahlund LO.

Acta Radiol. 2011 Mar 1;52(2):211-22.

Comparison of ASL Techniques or ASL compared with other imaging methods

[\[Nonenhanced MR Angiography Techniques.\]](#)

Lanzman RS, Schmitt P, Kröpil P, Blondin D.

Rofo. 2011 Mar 25. [Epub ahead of print] German.

[Perfusion deficit to cholinergic challenge in veterans with Gulf War Illness.](#)

Liu P, Aslan S, Li X, Buhner DM, Spence JS, Briggs RW, Haley RW, Lu H.

Neurotoxicology. 2011 Mar;32(2):242-6. Epub 2010 Dec 13.

[Pseudocontinuous arterial spin labeling perfusion magnetic resonance imaging - A normative study of reproducibility in the human brain.](#)

Wu WC, Jiang SF, Yang SC, Lien SH.

Neuroimage. 2011 Mar 5. [Epub ahead of print]

[Pseudo-continuous transfer insensitive labeling technique.](#)

Ouyang C, Sutton BP.

Magn Reson Med. 2011 Mar 4. doi: 10.1002/mrm.22815. [Epub ahead of print]

[Test-retest reliability of arterial spin labeling with common labeling strategies.](#)

Chen Y, Wang DJ, Detre JA.

J Magn Reson Imaging. 2011 Apr;33(4):940-9. doi: 10.1002/jmri.22345.

[Unenhanced MR Angiography: Techniques and Clinical Applications in Patients with Chronic Kidney Disease.](#)

Morita S, Masukawa A, Suzuki K, Hirata M, Kojima S, Ueno E.

Radiographics. 2011 Mar-Apr;31(2):E13-33.

Functional Imaging / BOLD

[Age-associated reductions in cerebral blood flow are independent from regional atrophy.](#)

Chen JJ, Rosas HD, Salat DH.

Neuroimage. 2011 Mar 15;55(2):468-78. Epub 2010 Dec 16.

[Brain mechanisms supporting the modulation of pain by mindfulness meditation.](#)

Zeidan F, Martucci KT, Kraft RA, Gordon NS, McHaffie JG, Coghill RC.

J Neurosci. 2011 Apr 6;31(14):5540-8.

[CYP2D6 in the brain: genotype effects on resting brain perfusion.](#)

Kirchheiner J, Seeringer A, Godoy AL, Ohmle B, Maier C, Beschoner P, Sim EJ, Viviani R. Mol Psychiatry. 2011 Mar;16(3):333-41. Epub 2010 Apr 6.

[Differential effects of intranasal insulin and caffeine on cerebral blood flow.](#)

Grichisch Y, Cavuşoğlu M, Preissl H, Uludağ K, Hallschmid M, Birbaumer N, Häring HU, Fritsche A, Veit R.

Hum Brain Mapp. 2011 Mar 9. doi: 10.1002/hbm.21216. [Epub ahead of print]

[Functional localization in the human brain: Gradient-echo, spin-echo, and arterial spin-labeling fMRI compared with neuronavigated TMS.](#)

Diekhoff S, Uludağ K, Sparing R, Tittgemeyer M, Cavuşoğlu M, von Cramon DY, Grefkes C. Hum Brain Mapp. 2011 Mar;32(3):341-57. doi: 10.1002/hbm.21024.

[Measuring perfusion and bioenergetics simultaneously in mouse skeletal muscle: a multiparametric functional-NMR approach.](#)

Baligand C, Wary C, Ménard JC, Giacomini E, Hogrel JY, Carlier PG.

NMR Biomed. 2011 Apr;24(3):281-90. doi: 10.1002/nbm.1587. Epub 2010 Sep 22.

[Real-time functional MRI using pseudo-continuous arterial spin labeling.](#)

Hernandez-Garcia L, Jahanian H, Greenwald MK, Zubieta JK, Peltier SJ.

Magn Reson Med. 2011 Mar 28. doi: 10.1002/mrm.22922. [Epub ahead of print]

[The neural substrate of positive bias in spontaneous emotional processing.](#)

Viviani R, Lo H, Sim EJ, Beschoner P, Stingl JC, Horn AB.

PLoS One. 2010 Nov 8;5(11):e15454.

Technical Improvement/ Parameter Optimisation/ Theoretical Papers/ Review Papers

[B\(0\) field inhomogeneity considerations in pseudo-continuous arterial spin labeling \(pCASL\): effects on tagging efficiency and correction strategy.](#)

Jahanian H, Noll DC, Hernandez-Garcia L.

NMR Biomed. 2011 Mar 8. doi: 10.1002/nbm.1675. [Epub ahead of print]

[Partial volume correction of multiple inversion time arterial spin labeling MRI data.](#)

Chappell MA, Groves AR, Macintosh BJ, Donahue MJ, Jezzard P, Woolrich MW.

Magn Reson Med. 2011 Apr;65(4):1173-83. doi: 10.1002/mrm.22641. Epub 2011 Feb 17.

No abstract available.

Review Paper

[Evolution of brain imaging instrumentation.](#)

Abraham T, Feng J.

Semin Nucl Med. 2011 May;41(3):202-19.

[The search for neuroimaging biomarkers of Alzheimer's disease with advanced MRI techniques.](#)

Li TQ, Wahlund LO.

Acta Radiol. 2011 Mar 1;52(2):211-22.

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 newsletter@asl-network.org