

Dear Colleagues.

Here is the ASL Network Newsletter for July and August, a little bit delayed because of my holidays.

I hope you like it.

Cheers,
Johanna

Recent publications (July & August 2010, e-publications might have been earlier):

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Animal studies

[Elevated cerebral blood flow and vascular density in the amygdala after status epilepticus in rats.](#)

Hayward NM, Nnode-Ekane XE, Kutchiashvili N, Gröhn O, Pitkänen A.
Neurosci Lett. 2010 Aug 13. [Epub ahead of print]

[Frequency-dependent neural activity, CBF, and BOLD fMRI to somatosensory stimuli in isoflurane-anesthetized rats.](#)

Kim T, Masamoto K, Fukuda M, Vazquez A, Kim SG.
Neuroimage. 2010 Aug 1;52(1):224-33. Epub 2010 Mar 27.

[High-field continuous arterial spin labeling with long labeling duration: Reduced confounds from blood transit time and postlabeling delay.](#)

Lu H, Leoni R, Silva AC, Stein EA, Yang Y.
Magn Reson Med. 2010 Aug 16. [Epub ahead of print]

[Propofol allows precise quantitative arterial spin labelling functional magnetic resonance imaging in the rat.](#)

Griffin KM, Blau CW, Kelly ME, O'Herlihy C, O'Connell PR, Jones JF, Kerskens CM.
Neuroimage. 2010 Jul 15;51(4):1395-404. Epub 2010 Mar 19.

Cerebral blood flow studies

Reproducibility study

[Regional reproducibility of pulsed arterial spin labeling perfusion imaging at 3T.](#)

Wang Y, Saykin AJ, Pfeuffer J, Lin C, Mosier KM, Shen L, Kim S, Hutchins GD.
Neuroimage. 2010 Aug 24. [Epub ahead of print]

Regional comparison

[On the sensitivity of ASL MRI in detecting regional differences in cerebral blood flow.](#)

Aslan S, Lu H.
Magn Reson Imaging. 2010 Sep;28(7):928-935. Epub 2010 Apr 27.

Determination of spin compartment

[Determination of spin compartment in arterial spin labeling MRI.](#)

Liu P, Uh J, Lu H.
Magn Reson Med. 2010 Aug 25. [Epub ahead of print]

Studies on special diseases

[An arterial spin labeling investigation of cerebral blood flow deficits in chronic stroke survivors.](#)

Brumm KP, Perthen JE, Liu TT, Haist F, Ayalon L, Love T.
Neuroimage. 2010 Jul 1;51(3):995-1005. Epub 2010 Mar 6.

[Decreased ventral striatal activity with impulse control disorders in Parkinson's disease.](#)

Rao H, Mamikonyan E, Detre JA, Siderowf AD, Stern MB, Potenza MN, Weintraub D.
Mov Disord. 2010 Aug 15;25(11):1660-9.

[Neuroimaging techniques in epilepsy.](#)

Lai V, Mak HK, Yung AW, Ho WY, Hung KN.
Hong Kong Med J. 2010 Aug;16(4):292-8.

[Resting cerebral blood flow alterations in chronic traumatic brain injury: an arterial spin labeling perfusion fMRI study.](#)

Kim J, Whyte J, Patel S, Avants B, Europa E, Wang J, Slattery J, Gee JC, Coslett HB, Detre JA.
J Neurotrauma. 2010 Aug;27(8):1399-411.

[Resting-state perfusion in nonmedicated schizophrenic patients: a continuous arterial spin-labeling 3.0-T MR study.](#)

Scheef L, Manka C, Daamen M, Kühn KU, Maier W, Schild HH, Jessen F.
Radiology. 2010 Jul;256(1):253-60. Epub 2010 May 26.

[Symptomatic carotid artery stenosis: impairment of cerebral autoregulation measured at the brain tissue level with arterial spin-labeling MR imaging.](#)

Bokkers RP, van Osch MJ, van der Worp HB, de Borst GJ, Mali WP, Hendrikse J.
Radiology. 2010 Jul;256(1):201-8.

Comparison of ASL Techniques or ASL compared with other imaging methods

[Brain blood flow and velocity: correlations between magnetic resonance imaging and transcranial Doppler sonography.](#)

Sorond FA, Hollenberg NK, Panych LP, Fisher ND.
J Ultrasound Med. 2010 Jul;29(7):1017-22.

[Cerebral perfusion information obtained by dynamic contrast-enhanced phase-shift magnetic resonance imaging: comparison with model-free arterial spin labelling.](#)

Wirestam R, Lindgren E, van Westen D, Bloch KM, Ståhlberg F, Knutsson L.
Clin Physiol Funct Imaging. 2010 Jul 2. [Epub ahead of print]

[Magnetic resonance perfusion imaging without contrast media.](#)

Martirosian P, Boss A, Schraml C, Schwenzer NF, Graf H, Claussen CD, Schick F.
Eur J Nucl Med Mol Imaging. 2010 Aug;37(Suppl 1):S52-64.

[Signal changes in the brain on susceptibility-weighted imaging under reduced cerebral blood flow: a preliminary study.](#)

Fushimi Y, Miki Y, Mori N, Okada T, Urayama S, Fukuyama H, Togashi K.
J Neuroimaging. 2010 Jul;20(3):255-9. Epub 2009 Jan 30.

[Vessel-encoded dynamic magnetic resonance angiography using arterial spin labeling.](#)

Okell TW, Chappell MA, Woolrich MW, Günther M, Feinberg DA, Jezzard P.
Magn Reson Med. 2010 Aug;64(2):430-8.

Functional imaging

[Anatomical differences and network characteristics underlying smoking cue reactivity.](#)

Zhang X, Salmeron BJ, Ross TJ, Gu H, Geng X, Yang Y, Stein EA.
Neuroimage. 2010 Aug 2. [Epub ahead of print]

[Baseline GABA concentration and fMRI response.](#)

Donahue MJ, Near J, Blicher JU, Jezzard P.
Neuroimage. 2010 Jul 12. [Epub ahead of print]

[Detecting changes in human cerebral blood flow after acute exercise using arterial spin labeling: Implications for fMRI.](#)

Smith JC, Paulson ES, Cook DB, Verber MD, Tian Q.
J Neurosci Methods. 2010 Jul 9. [Epub ahead of print]

[Mapping brain function using a 30-day interval between baseline and activation: a novel arterial spin labeling fMRI approach.](#)

Borogovac A, Habeck C, Small SA, Asllani I.
J Cereb Blood Flow Metab. 2010 Jul 21. [Epub ahead of print]

[On the sensitivity of ASL MRI in detecting regional differences in cerebral blood flow.](#)

Aslan S, Lu H.
Magn Reson Imaging. 2010 Sep;28(7):928-935. Epub 2010 Apr 27.

[Precise control of end-tidal carbon dioxide and oxygen improves BOLD and ASL cerebrovascular reactivity measures.](#)

Mark CI, Slessarev M, Ito S, Han J, Fisher JA, Pike GB.
Magn Reson Med. 2010 Jul 20. [Epub ahead of print]

[Quantitative analysis of arterial spin labeling FMRI data using a general linear model.](#)

Hernandez-Garcia L, Jahanian H, Rowe DB.
Magn Reson Imaging. 2010 Sep;28(7):919-927. Epub 2010 Apr 24.

[Resting cerebral blood flow alterations in chronic traumatic brain injury: an arterial spin labeling perfusion FMRI study.](#)

Kim J, Whyte J, Patel S, Avants B, Europa E, Wang J, Slattery J, Gee JC, Coslett HB, Detre JA.
J Neurotrauma. 2010 Aug;27(8):1399-411.

[Similarities and differences in arterial responses to hypercapnia and visual stimulation.](#)

Ho YC, Petersen ET, Zimine I, Golay X.

J Cereb Blood Flow Metab. 2010 Aug 11. [Epub ahead of print]

[Simultaneous acquisition of gradient echo/spin echo BOLD and perfusion with a separate labeling coil.](#)

Glielmi CB, Xu Q, Craddock RC, Hu X.

Magn Reson Med. 2010 Jul 20. [Epub ahead of print]

Perfusion studies other than on the brain

[Early response assessment in patients with multiple myeloma during anti-angiogenic therapy using arterial spin labelling: first clinical results.](#)

Fenchel M, Konaktchieva M, Weisel K, Kraus S, Brodoefel H, Claussen CD, Horger M.

Eur Radiol. 2010 Jul 1. [Epub ahead of print]

[Image-based calculation of perfusion and oxyhemoglobin saturation in skeletal muscle during submaximal isometric contractions.](#)

Elder CP, Cook RN, Chance MA, Copenhaver EA, Damon BM.

Magn Reson Med. 2010 Sep;64(3):852-61.

[Magnetic resonance perfusion imaging without contrast media.](#)

Martirosian P, Boss A, Schraml C, Schwenzer NF, Graf H, Claussen CD, Schick F.

Eur J Nucl Med Mol Imaging. 2010 Aug;37(Suppl 1):S52-64.

Technical / Technical Improvement/ Theoretical Papers

[A general framework for the analysis of vessel encoded arterial spin labeling for vascular territory mapping.](#)

Chappell MA, Okell TW, Jezzard P, Woolrich MW.

Magn Reson Med. 2010 Jul 30. [Epub ahead of print]

[Modified pulsed continuous arterial spin labeling for labeling of a single artery.](#)

Dai W, Robson PM, Shankaranarayanan A, Alsop DC.

Magn Reson Med. 2010 Jul 27. [Epub ahead of print]

[Real-time adaptive sequential design for optimal acquisition of arterial spin labeling MRI data.](#)

Xie J, Clare S, Gallichan D, Gunn RN, Jezzard P.

Magn Reson Med. 2010 Jul;64(1):203-10.

[Robust EPI Nyquist ghost elimination via spatial and temporal encoding.](#)

Hoge WS, Tan H, Kraft RA.

Magn Reson Med. 2010 Jul 27. [Epub ahead of print]

[Superselective pseudocontinuous arterial spin labeling.](#)

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

Magn Reson Med. 2010 Jul 1. [Epub ahead of print]

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