

Dear Colleagues.

Here is the ASL Newsletter No.6.

I am happy that I received a publication from your side to add to the newsletter.
Enjoy the autumn und the coming Christmas time.

Cheers,
Johanna

Recent publications (September & October 2010, e-publications might have been earlier):

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Animal studies

[Association of chronic vascular changes with functional outcome after TBI in rats.](#)

Hayward NM, Immonen R, Tuunanen P, Nnode-Ekane XE, Grohn OH, Pitkanen A.
J Neurotrauma. 2010 Sep 14. [Epub ahead of print]

[Cerebral blood flow changes during pilocarpine-induced status epilepticus activity in the rat hippocampus.](#)

Choy M, Wells JA, Thomas DL, Gadian DG, Scott RC, Lythgoe MF.
Exp Neurol. 2010 Sep;225(1):196-201. Epub 2010 Jun 25.

[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 Oct 22;484(1):39-42. Epub 2010 Aug 13.

[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. 2010 Sep 22. [Epub ahead of print]

[MRI of retinal and choroidal blood flow with laminar resolution.](#)

Muir ER, Duong TQ.
NMR Biomed. 2010 Sep 6. [Epub ahead of print]

Perfusion studies other than on the brain

[Arterial spin labeling MRI for assessment of perfusion in native and transplanted kidneys.](#)

Artz NS, Sadowski EA, Wentland AL, Grist TM, Seo S, Djamali A, Fain SB.
Magn Reson Imaging. 2010 Sep 15. [Epub ahead of print]

[Blood flow quantification of the human retina with MRI.](#)

Maleki N, Dai W, Alsop DC.
NMR Biomed. 2010 Sep 22. [Epub ahead of print]

[Changes of renal blood flow after ESWL: Assessment by ASL MR imaging, contrast enhanced MR imaging, and renal resistive index.](#)

Ellah MA, Kremser C, Pallwein L, Aigner F, Schocke M, Peschel R, Pedross F, Pinggera GM, Wolf C, Alsharkawy MA, Jaschke W, Frauscher F.
Eur J Radiol. 2010 Oct;76(1):124-8. Epub 2009 Jun 7.

[Dynamic contrast-enhanced magnetic resonance imaging: definitive imaging of placental function?](#)

Chalouhi GE, Deloison B, Siauve N, Aimot S, Balvay D, Cuenod CA, Ville Y, Clément O, Salomon LJ.
Semin Fetal Neonatal Med. 2010 Sep 16. [Epub ahead of print]

[Estimation of perfusion and arterial transit time in myocardium using free-breathing myocardial arterial spin labeling with navigator-echo.](#)

Wang DJ, Bi X, Avants BB, Meng T, Zuehlsdorff S, Detre JA.
Magn Reson Med. 2010 Sep 23. [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.

[Lung volume does not alter the distribution of pulmonary perfusion in dependent lung in supine humans.](#)

Hopkins SR, Arai TJ, Henderson AC, Levin DL, Buxton RB, Prisk GK.
J Physiol. 2010 Oct 4. [Epub ahead of print]

[MRI of retinal and choroidal blood flow with laminar resolution.](#)

Muir ER, Duong TQ.
NMR Biomed. 2010 Sep 6. [Epub ahead of print]

Cerebral blood flow studies

[Accurate, localized quantification of white matter perfusion with single-voxel ASL.](#)

Pohmann R.
Magn Reson Med. 2010 Oct;64(4):1109-13.

[Acute effect of a high nitrate diet on brain perfusion in older adults.](#)

Presley TD, Morgan AR, Bechtold E, Clodfelter W, Dove RW, Jennings JM, Kraft RA, Bruce King S, Laurienti PJ, Jack Rejeski W, Burdette JH, Kim-Shapiro DB, Miller GD.
Nitric Oxide. 2010 Oct 15. [Epub ahead of print]

[Comparison of selective arterial spin labeling using 1D and 2D tagging RF pulses.](#)

Konstandin S, Heiler PM, Scharf J, Schad LR.
Z Med Phys. 2010 Sep 28. [Epub ahead of print]

[Hippocampal blood flow in normal aging measured with arterial spin labeling at 3T.](#)

Rusinek H, Brys M, Glodzik L, Switalski R, Tsui WH, Haas F, McGorty K, Chen Q, de Leon MJ.
Magn Reson Med. 2010 Oct 11. [Epub ahead of print]

Reproducibility study

[Reliability and reproducibility of perfusion MRI in cognitively normal subjects.](#)

Jiang L, Kim M, Chodkowski B, Donahue MJ, Pekar JJ, Van Zijl PC, Albert M.
Magn Reson Imaging. 2010 Nov;28(9):1283-9. Epub 2010 Jun 22.

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):928-35. Epub 2010 Apr 27.

Studies on special diseases

[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. 2010 Sep 18. [Epub ahead of print]

[Framingham cardiovascular risk profile correlates with impaired hippocampal and cortical vasoreactivity to hypercapnia.](#)

Glodzik L, Rusinek H, Brys M, Tsui WH, Switalski R, Mosconi L, Mistur R, Pirraglia E, de Santi S, Li Y, Goldowsky A, de Leon MJ.

J Cereb Blood Flow Metab. 2010 Sep 15. [Epub ahead of print]

[Hypertension and Cerebral Vasoreactivity. A Continuous Arterial Spin Labeling Magnetic Resonance Imaging Study.](#)

Hajjar I, Zhao P, Alsop D, Novak V.

Hypertension. 2010 Sep 27. [Epub ahead of print]

[Ictal hyperperfusion demonstrated by arterial spin-labeling MRI in status epilepticus.](#)

Nguyen D, Kapina V, Seeck M, Viallon M, Fedespiel A, Lovblad KO.

J Neuroradiol. 2010 Oct;37(4):250-1. Epub 2010 Mar 24. No abstract available.

[Response Assessment in Patients with Multiple Myeloma during Antiangiogenic Therapy using Arterial Spin Labeling and Diffusion-Weighted Imaging A Feasibility Study.](#)

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

Acad Radiol. 2010 Sep 1. [Epub ahead of print]

Comparison of ASL Techniques or ASL compared with other imaging methods

[Biopsy Targeting Gliomas: Do Functional Imaging Techniques Identify Similar Target Areas?](#)

Weber MA, Henze M, Tüttenberg J, Stieltjes B, Meissner M, Zimmer F, Burkholder I, Kroll A, Combs SE, Vogt-Schaden M, Giesel FL, Zoubaa S, Haberkorn U, Kauczor HU, Essig M.

Invest Radiol. 2010 Sep 8. [Epub ahead of print]

[Brain MR perfusion-weighted imaging with alternate ascending/descending directional navigation.](#)

Park SH.

Magn Reson Med. 2010 Sep 21. [Epub ahead of print]

[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 Sep;30(5):375-9. Epub 2010 Jul 2.

[Imaging for new radiotherapy techniques.](#)

Schlemmer HP.
Cancer Imaging. 2010 Oct 4;10:S73.

[Multiphase pseudocontinuous arterial spin labeling \(MP-PCASL\) for robust quantification of cerebral blood flow.](#)

Jung Y, Wong EC, Liu TT.
Magn Reson Med. 2010 Sep;64(3):799-810.

[Reduction of errors in ASL cerebral perfusion and arterial transit time maps using image de-noising.](#)

Wells JA, Thomas DL, King MD, Connelly A, Lythgoe MF, Calamante F.
Magn Reson Med. 2010 Sep;64(3):715-24.

[Time-resolved Vessel-selective Digital Subtraction MR Angiography of the Cerebral Vasculature with Arterial Spin Labeling.](#)

Robson PM, Dai W, Shankaranarayanan A, Rofsky NM, Alsop DC.
Radiology. 2010 Sep 9. [Epub ahead of print]

[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 Sep;64(3):698-706.

Functional Imaging / BOLD

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

Zhang X, Salmeron BJ, Ross TJ, Gu H, Geng X, Yang Y, Stein EA.
Neuroimage. 2011 Jan 1;54(1):131-41. Epub 2010 Aug 3.

[Baseline CBF, and BOLD, CBF, and CMRO\(2\) fMRI of visual and vibrotactile stimulations in baboons.](#)

Wey HY, Wang DJ, Duong TQ.
J Cereb Blood Flow Metab. 2010 Sep 8. [Epub ahead of print]

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

Donahue MJ, Near J, Blicher JU, Jezzard P.
Neuroimage. 2010 Nov 1;53(2):392-8. Epub 2010 Jul 12.

[Challenges to attention: A continuous arterial spin labeling \(ASL\) study of the effects of distraction on sustained attention.](#)

Demeter E, Hernandez-Garcia L, Sarter M, Lustig C.
Neuroimage. 2010 Sep 16. [Epub ahead of print]

[Elimination of visually evoked BOLD responses during carbogen inhalation: Implications for calibrated MRI.](#)

Gauthier CJ, Madjar C, Tancredi FB, Stefanovic B, Hoge RD.
Neuroimage. 2010 Sep 28. [Epub ahead of print]

[Improved fMRI calibration: Precisely controlled hyperoxic versus hypercapnic stimuli.](#)

Mark CI, Fisher JA, Pike GB.
Neuroimage. 2010 Sep 6. [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 Oct;30(10):1721-33. Epub 2010 Jul 21.

[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.
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[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):928-35. 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 Sep;64(3):749-56.

[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):919-27. Epub 2010 Apr 24.

Technical / Technical Improvement/ Theoretical Papers

[A Modified EPI sequence for high-resolution imaging at ultra-short echo time.](#)

Hetzer S, Mildner T, Möller HE.
Magn Reson Med. 2010 Sep 27. [Epub ahead of print]

[Effects of large-scale nonstationarity on parametric maps. A study of rest perfusion CASL data.](#)

Viviani R.
Neuroimage. 2010 Oct 22. [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 Oct;64(4):975-82.

[Superselective pseudocontinuous arterial spin labeling.](#)

Helle M, Norris DG, Rüfer S, Alfke K, Jansen O, van Osch MJ.
Magn Reson Med. 2010 Sep;64(3):777-86.

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