

Dear Colleagues.

We were very happy, that so many of you joined us for the ASL Network Meeting in Stockholm. Pictures can be found at the web page: <http://www.asl-network.org/>

Please make sure that your spam filter does not block the newsletter, if it does you can still find a version on the web page.

Here is the third newsletter for 2010. Enjoy.

The coming newsletter for July/August will be delayed up to two weeks due to my vacation.

Cheers,
Johanna

Recent publications (May & June 2010, e-publications might have been earlier):

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Animal studies

[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.

[Impact of arginase II on CBF in experimental cortical impact injury in mice using MRI.](#)

Bitner BR, Brink DC, Mathew LC, Pautler RG, Robertson CS.
J Cereb Blood Flow Metab. 2010 Jun;30(6):1105-9. Epub 2010 Apr 7.

[Magnetic resonance imaging of regional hemodynamic and cerebrovascular recovery after lateral fluid-percussion brain injury in rats.](#)

Hayward NM, Tuunanen PI, Immonen R, Nkomo-Ekane XE, Pitkänen A, Gröhn O.
J Cereb Blood Flow Metab. 2010 May 19. [Epub ahead of print]

[Perfusion in rat brain at 7 T with arterial spin labeling using FAIR-TrueFISP and QUIPSS.](#)

Esparza-Coss E, Wosik J, Narayana PA.
Magn Reson Imaging. 2010 May;28(4):607-12. Epub 2010 Mar 29.

[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.

[Quantitative functional magnetic resonance imaging of brain activity using bolus-tracking arterial spin labeling.](#)

Kelly ME, Blau CW, Griffin KM, Gobbo OL, Jones JF, Kerskens CM.
J Cereb Blood Flow Metab. 2010 May;30(5):913-22. Epub 2010 Jan 13.

Drug studies

[Using MRI to measure drug action: caveats and new directions.](#)

Murphy SE, Mackay CE.
J Psychopharmacol. 2010 Jun 28. [Epub ahead of print]

Perfusion studies on other organs than the brain

[Diffusion and perfusion of the kidney.](#)

Notohamiprodjo M, Reiser MF, Sourbron SP.
Eur J Radiol. 2010 Jun 24. [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 May 12. [Epub ahead of print]

[Multislice perfusion of the kidneys using parallel imaging: image acquisition and analysis strategies.](#)

Gardener AG, Francis ST.
Magn Reson Med. 2010 Jun;63(6):1627-36.

[Quantification of renal allograft perfusion using arterial spin labeling MRI: initial results.](#)

Lanzman RS, Wittsack HJ, Martirosian P, Zgoura P, Bilk P, Kröpil P, Schick F, Voiculescu A, Blondin D.
Eur Radiol. 2010 Jun;20(6):1485-91. Epub 2009 Dec 1.

Cerebral blood flow studies

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 Jun 21. [Epub ahead of print]

Regional comparison

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

Pohmann R.
Magn Reson Med. 2010 Jun 9. [Epub ahead of print]

[Cerebral Blood Flow in Posterior Cortical Nodes of the Default Mode Network Decreases with Task Engagement but Remains Higher than in Most Brain Regions.](#)

Pfefferbaum A, Chanraud S, Pitel AL, Müller-Oehring E, Shankaranarayanan A, Alsup DC, Rohlfing T, Sullivan EV.
Cereb Cortex. 2010 May 19. [Epub ahead of print]

[Volumetric cerebral perfusion imaging in healthy adults: Regional distribution, laterality, and repeatability of pulsed continuous arterial spin labeling \(PCASL\).](#)

Pfefferbaum A, Chanraud S, Pitel AL, Shankaranarayanan A, Alsup DC, Rohlfing T, Sullivan EV.
Psychiatry Res. 2010 May 18. [Epub ahead of print]

Studies on special disease

[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.

[Arterial spin-labeling MRI perfusion in tuberous sclerosis: correlation with PET.](#)

Wissmeyer M, Altrichter S, Pereira VM, Viallon M, Federspiel A, Seeck M, Schaller K, Lövblad KO.
J Neuroradiol. 2010 May;37(2):127-30. Epub 2009 Jul 3.

[Arterial spin-labeled MRI study of migraine attacks treated with rizatriptan.](#)

Kato Y, Araki N, Matsuda H, Ito Y, Suzuki C.

J Headache Pain. 2010 Jun;11(3):255-8. Epub 2010 Apr 22

[Attenuation of cerebral venous contrast in susceptibility-weighted imaging of spontaneously breathing pediatric patients sedated with propofol.](#)

Sedlacik J, Löbel U, Kocak M, Loeffler RB, Reichenbach JR, Broniscer A, Patay Z, Hillenbrand CM.

AJNR Am J Neuroradiol. 2010 May;31(5):901-6. Epub 2010 Jan 6.

[Chronic and treatment-resistant depression: A study using arterial spin labeling perfusion MRI at 3Tesla.](#)

Duhameau B, Ferré JC, Jannin P, Gauvrit JY, Vérin M, Millet B, Drapier D.

Psychiatry Res. 2010 May 30;182(2):111-116. Epub 2010 Apr 27.

[Fast inversion recovery magnetic resonance angiography of the intracranial arteries.](#)

Tan ET, Huston J 3rd, Campeau NG, Riederer SJ.

Magn Reson Med. 2010 Jun;63(6):1648-58.

[Impact of arginase II on CBF in experimental cortical impact injury in mice using MRI.](#)

Bitner BR, Brink DC, Mathew LC, Pautler RG, Robertson CS.

J Cereb Blood Flow Metab. 2010 Jun;30(6):1105-9. Epub 2010 Apr 7.

[Patterns of Altered Cortical Perfusion and Diminished Subcortical Integrity in Posttraumatic Stress Disorder: A MRI Study.](#)

Schuff N, Zhang Y, Zhan W, Lenoci M, Ching C, Boreta L, Mueller SG, Wang Z, Marmar CR, Weiner MW, Neylan TC.

Neuroimage. 2010 May 16. [Epub ahead of print]

[Perfusion MRI demonstrates crossed-cerebellar diaschisis in sickle cell disease.](#)

O'Gorman RL, Siddiqui A, Alsop DC, Jarosz JM.

Pediatr Neurol. 2010 Jun;42(6):437-40.

[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 May 26. [Epub ahead of print]

[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.

[Update on the magnetic resonance imaging core of the Alzheimer's disease neuroimaging initiative.](#)

Jack CR Jr, Bernstein MA, Borowski BJ, Gunter JL, Fox NC, Thompson PM, Schuff N, Krueger G, Killiany RJ, Decarli CS, Dale AM, Carmichael OW, Tosun D, Weiner MW; Alzheimer's Disease Neuroimaging Initiative.

Alzheimers Dement. 2010 May;6(3):212-20.

Initiative presentation

[Update on the magnetic resonance imaging core of the Alzheimer's disease neuroimaging initiative.](#)

Jack CR Jr, Bernstein MA, Borowski BJ, Gunter JL, Fox NC, Thompson PM, Schuff N, Krueger G, Killiany RJ, Decarli CS, Dale AM, Carmichael OW, Tosun D, Weiner MW; Alzheimer's Disease Neuroimaging Initiative. *Alzheimers Dement.* 2010 May;6(3):212-20.

Comparison of ASL Techniques or ASL compared with other imaging methods

[A Comparative Study of Perfusion Measurement in Brain Tumours at 3 Tesla MR: Arterial Spin Labeling versus Dynamic Susceptibility Contrast-Enhanced MRI.](#)

Lehmann P, Monet P, de Marco G, Saliou G, Perrin M, Stoquart-Elsankari S, Bruniau A, Vallée JN. *Eur Neurol.* 2010 Jun 19;64(1):21-26. [Epub ahead of print]

[Arterial spin-labeling MRI perfusion in tuberous sclerosis: correlation with PET.](#)

Wissmeyer M, Altrichter S, Pereira VM, Viallon M, Federspiel A, Seeck M, Schaller K, Lövblad KO. *J Neuroradiol.* 2010 May;37(2):127-30. Epub 2009 Jul 3.

[Combined arterial spin label and dynamic susceptibility contrast measurement of cerebral blood flow.](#)

Zaharchuk G, Straka M, Marks MP, Albers GW, Moseley ME, Bammer R. *Magn Reson Med.* 2010 Jun;63(6):1548-56.

[Imaging of advanced renal cell carcinoma.](#)

Mueller-Lisse UG, Mueller-Lisse UL. *World J Urol.* 2010 Jun;28(3):253-61. Epub 2010 May 11.

[Improved pseudo-continuous arterial spin labeling for mapping brain perfusion.](#)

Nezamzadeh M, Matson GB, Young K, Weiner MW, Schuff N. *J Magn Reson Imaging.* 2010 Jun;31(6):1419-27.

[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 May 12. [Epub ahead of print]

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

Jung Y, Wong EC, Liu TT. *Magn Reson Med.* 2010 Jun 23. [Epub ahead of print]

[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 Jun 23. [Epub ahead of print]

[Separation of macrovascular signal in multi-inversion time arterial spin labelling MRI.](#)

Chappell MA, MacIntosh BJ, Donahue MJ, Günther M, Jezzard P, Woolrich MW.
Magn Reson Med. 2010 May;63(5):1357-65.

[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 Jun 9. [Epub ahead of print]

Functional imaging

[Acute stress modulates genotype effects on amygdala processing in humans.](#)

Cousijn H, Rijpkema M, Qin S, van Marle HJ, Franke B, Hermans EJ, van Wingen G, Fernández G.
Proc Natl Acad Sci U S A. 2010 May 10. [Epub ahead of print]

[Cerebral Blood Flow in Posterior Cortical Nodes of the Default Mode Network Decreases with Task Engagement but Remains Higher than in Most Brain Regions.](#)

Pfefferbaum A, Chanraud S, Pitel AL, Müller-Oehring E, Shankaranarayanan A, Alsop DC, Rohlfing T, Sullivan EV.
Cereb Cortex. 2010 May 19. [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. 2010 Jun 9. [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.

[Resting CBF 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 Jun 7. [Epub ahead of print]

Technical / Theoretical Papers

[Denoising of arterial spin labeling data: wavelet-domain filtering compared with Gaussian smoothing.](#)

Bibic A, Knutsson L, Ståhlberg F, Wirestam R.
MAGMA. 2010 Jun;23(3):125-37. Epub 2010 Apr 28.

[Magnetic field modeling with a set of individual localized coils.](#)

Juchem C, Nixon TW, McIntyre S, Rothman DL, de Graaf RA.
J Magn Reson. 2010 Jun;204(2):281-9. Epub 2010 Mar 11.

[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 May 17;64(1):203-210. [Epub ahead of print]

If an interesting article is missing let me know, it will be included in the next newsletter. I do my best to keep the list as complete as possible.

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