

Dear Colleagues.

Right before the ISMRM the Newsletter for March and April.

I am looking forward to see some of you on Tuesday at the ASL Network Meeting in Stockholm.

One thing in organisational matters: If you haven't subscribed to the ASL Network Mailing list on our homepage (<http://www.asl-network.org/>), which most of you already did, please do so to make sure you receive the Newsletter and information in future.

Cheers,
Johanna

Recent publications (March & April 2010, e-publications might have been earlier):

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Animal studies

[Differential effects of endothelin receptor A and B antagonism on cerebral hypoperfusion following traumatic brain injury.](#)

Kreipke CW, Schafer PC, Rossi NF, Rafols JA.

Neurol Res. 2010 Mar;32(2):209-14. Epub 2009 Jun 30.

[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 Mar 26. [Epub ahead of print]

[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 Apr 7. [Epub ahead of print]

[Improved arterial spin labeling after myocardial infarction in mice using cardiac and respiratory gated look-locker imaging with fuzzy C-means clustering.](#)

Vandsburger MH, Janiczek RL, Xu Y, French BA, Meyer CH, Kramer CM, Epstein FH.

Magn Reson Med. 2010 Mar;63(3):648-57.

[In vivo hadamard encoded continuous arterial spin labeling \(H-CASL\).](#)

Wells JA, Lythgoe MF, Gadian DG, Ordidge RJ, Thomas DL.

Magn Reson Med. 2010 Apr;63(4):1111-8.

[Outcome of experimental stroke in C57Bl/6 and Sv/129 mice assessed by multimodal ultra-high field MRI.](#)

Pham M, Helluy X, Braeuninger S, Jakob P, Stoll G, Kleinschnitz C, Bendszus M.

Exp Transl Stroke Med. 2010 Mar 15;2(1):6. [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 Mar 17. [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 Mar 19. [Epub ahead of print]

Drug studies

[Arterial spin labeling demonstrates that focal amygdalar glutamatergic agonist infusion leads to rapid diffuse cerebral activation.](#)

Munasinghe JP, Banerjee M, Acosta MT, Banks M, Heffer A, Silva AC, Koretsky A, Theodore WH.

Acta Neurol Scand. 2010 Mar;121(3):209-16. Epub 2009 Nov 25.

Cerebral blood flow studies

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 Mar 6. [Epub ahead of print]

[Arterial Spin Labeling Blood Flow MRI: Its Role in the Early Characterization of Alzheimer's Disease.](#)

Alsop DC, Dai W, Grossman M, Detre JA.

J Alzheimers Dis. 2010 Apr 22. [Epub ahead of print]

[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 Apr 22. [Epub ahead of print]

[Distribution of cerebral blood flow in the nucleus caudatus, nucleus lentiformis, and thalamus: a study of territorial arterial spin-labeling MR imaging.](#)

Hendrikse J, Petersen ET, Chng SM, Venketasubramanian N, Golay X.
Radiology. 2010 Mar;254(3):867-75. Epub 2010 Jan 20.

[Gray matter perfusion correlates with disease severity in ALS.](#)

Rule RR, Schuff N, Miller RG, Weiner MW.
Neurology. 2010 Mar 9;74(10):821-7. Epub 2010 Feb 10.

[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 Mar 22. [Epub ahead of print] no abstract

[Parkinson's disease spatial covariance pattern: noninvasive quantification with perfusion MRI.](#)

Ma Y, Huang C, Dyke JP, Pan H, Alsop D, Feigin A, Eidelberg D.
J Cereb Blood Flow Metab. 2010 Mar;30(3):505-9. Epub 2010 Jan 6.

[Reliability and precision of pseudo-continuous arterial spin labeling perfusion MRI on 3.0 T and comparison with \(15\)O-water PET in elderly subjects at risk for Alzheimer's disease.](#)

Xu G, Rowley HA, Wu G, Alsop DC, Shankaranarayanan A, Dowling M, Christian BT, Oakes TR, Johnson SC.
NMR Biomed. 2010 Apr;23(3):286-93.

Comparisson of ASL Techniques or ASL compaired with other imaging methods

[Cerebral arteriovenous malformations at 3.0 T: intraindividual comparative study of 4D-MRA in combination with selective arterial spin labeling and digital subtraction angiography.](#)

Kukuk GM, Hadizadeh DR, Boström A, Gieseke J, Bergener J, Nelles M, Mürtz P, Urbach H, Schild HH, Willinek WA.
Invest Radiol. 2010 Mar;45(3):126-32.

[Estimation of labeling efficiency in pseudocontinuous arterial spin labeling.](#)

Aslan S, Xu F, Wang PL, Uh J, Yezhuvath US, van Osch M, Lu H.
Magn Reson Med. 2010 Mar;63(3):765-71.

[Interictal arterial spin-labeling MRI perfusion in intractable epilepsy.](#)

Pendse N, Wissmeyer M, Altrichter S, Vargas M, Delavelle J, Viallon M, Federspiel A, Seeck M, Schaller K, Lövblad KO.
J Neuroradiol. 2010 Mar;37(1):60-3. Epub 2009 Aug 11.

[Perfusion MRI of brain tumours: a comparative study of pseudo-continuous arterial spin labelling and dynamic susceptibility contrast imaging.](#)

Järnum H, Steffensen EG, Knutsson L, Fründ ET, Simonsen CW, Lundbye-Christensen S, Shankaranarayanan A, Alsop DC, Jensen FT, Larsson EM.
Neuroradiology. 2010 Apr;52(4):307-17. Epub 2009 Oct 20.

[PET/MRI: paving the way for the next generation of clinical multimodality imaging applications.](#)

Pichler BJ, Kolb A, Nägele T, Schlemmer HP.
J Nucl Med. 2010 Mar;51(3):333-6. Epub 2010 Feb 11.

Functional imaging

[Dynamic subcortical blood flow during male sexual activity with ecological validity: a perfusion fMRI study.](#)

Georgiadis JR, Farrell MJ, Boessen R, Denton DA, Gavrilescu M, Kortekaas R, Renken RJ, Hoogduin JM, Egan GF.

Neuroimage. 2010 Mar;50(1):208-16. Epub 2009 Dec 16.

[Using perfusion MRI to measure the dynamic changes in neural activation associated with tonic muscular pain.](#)

Owen DG, Clarke CF, Ganapathy S, Prato FS, St Lawrence KS.

Pain. 2010 Mar;148(3):375-86. Epub 2009 Nov 14.

Commentary on that article can be found under commentaries on other articles

Other topics on cerebral blood flow

Modelling or testing of special parameters

[Assessment of arterial arrival times derived from multiple inversion time pulsed arterial spin labeling MRI.](#)

MacIntosh BJ, Filippini N, Chappell MA, Woolrich MW, Mackay CE, Jezzard P.

Magn Reson Med. 2010 Mar;63(3):641-7.

[Effects of CBV, CBF, and blood-brain barrier permeability on accuracy of PASL and VASO measurement.](#)

Wu CW, Liu HL, Chen JH, Yang Y.

Magn Reson Med. 2010 Mar;63(3):601-8.

[Components of acquisition-to-acquisition variance in continuous arterial spin labelling \(CASL\) imaging.](#)

Viviani R, Beschoner P, Lo H, Osterfeld N, Thöne J, Sim EJ.

BMC Neurosci. 2010 Mar 2;11:30.

Perfusion study on other organs than the brain

[Measurement of kidney perfusion by magnetic resonance imaging: comparison of MRI with arterial spin labeling to para-aminohippuric acid plasma clearance in male subjects with metabolic syndrome.](#)

Ritt M, Janka R, Schneider MP, Martirosian P, Hornegger J, Bautz W, Uder M, Schmieder RE.

Nephrol Dial Transplant. 2010 Apr;25(4):1126-33. Epub 2009 Nov 24.

Technical / Theoretical Papers

[Application of variable-rate selective excitation pulses for spin labeling in perfusion MRI.](#)

He J, Blamire AM.

Magn Reson Med. 2010 Mar;63(3):842-7.

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

Juchem C, Nixon TW, McIntyre S, Rothman DL, Graaf RA.

J Magn Reson. 2010 Mar 11. [Epub ahead of print]

[Technical aspects of MR perfusion.](#)

Sourbron S.

Eur J Radiol. 2010 Apr 2. [Epub ahead of print]

Commentaries on other articles

[The pain matrix: Reloaded or reborn as we image tonic pain using arterial spin labelling.](#)

Tracey I, Johns E.

Pain. 2010 Jan 15. [Epub ahead of print] No abstract available

Refers to: [Using perfusion MRI to measure the dynamic changes in neural activation associated with tonic muscular pain.](#)

Owen DG, Clarke CF, Ganapathy S, Prato FS, St Lawrence KS.

Pain. 2009 Nov 13. [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

Our webpage can be found under: <http://www.asl-network.org/>