

Dear Colleagues.

Here is the ASL Newsletter No. 11.

Note that a job offer is attached in the Email as well. If you have any open vacancies feel free to send them to me for a publication in the Newsletter.

I hope to see some of you at ESMRMB in Leipzig.

Cheers,
Johanna

Recent publications July & August 2011, (e-publications might have been earlier):

Content:

Animal studies	2
Pharmacological / Drug studies	2
Perfusion studies other than on the brain	3
Cerebral blood flow studies	3
CBF correlation with age	4
Reproducibility study	4
Studies on special diseases	4
Comparison of ASL Techniques or ASL compared with other imaging methods	5
Functional Imaging / BOLD	6
Physiological Parameters beside CBF	6
Technical Improvement/ Parameter Optimisation/ Theoretical Papers/ Review Papers	7
Review Paper/ Historical Review	7
Job offerings	7

Animal studies

[fMRI fingerprint of unconditioned fear-like behavior in rats exposed to trimethylthiazoline.](#)

Keßler MS, Debilly S, Schöppenthau S, Bielser T, Bruns A, Künnecke B, von Kienlin M, Wettstein JG, Moreau JL, Risterucci C.

Eur Neuropsychopharmacol. 2011 Aug 17. [Epub ahead of print]

[Longitudinal diffusion tensor imaging and perfusion MRI investigation in a macaque model of neuro-AIDS: A preliminary study.](#)

Li C, Zhang X, Komery A, Li Y, Novembre FJ, Herndon JG.

Neuroimage. 2011 Sep 1;58(1):286-92. Epub 2011 Jun 1.

[Magnetic resonance imaging quantification of regional cerebral blood flow and cerebrovascular reactivity to carbon dioxide in normotensive and hypertensive rats.](#)

Leoni RF, Paiva FF, Henning EC, Nascimento GC, Tannús A, de Araujo DB, Silva AC.

Neuroimage. 2011 Sep 1;58(1):75-81. Epub 2011 Jun 25.

[Quantification of renal perfusion: Comparison of arterial spin labeling and dynamic contrast-enhanced MRI.](#)

Winter JD, St Lawrence KS, Margaret Cheng HL.

J Magn Reson Imaging. 2011 Jul 14. doi: 10.1002/jmri.22660. [Epub ahead of print]

[Response of mouse brain perfusion to hypo- and hyperventilation measured by arterial spin labeling.](#)

Oosterlinck WW, Dresselaers T, Geldhof V, Van Santvoort A, Robberecht W, Herijgers P, Himmelreich U.

Magn Reson Med. 2011 Jul 11. doi: 10.1002/mrm.23060. [Epub ahead of print]

Pharmacological / Drug 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 Sep;82(9):1011-6. Epub 2011 Mar 8.

[Effects on resting cerebral blood flow and functional connectivity induced by metoclopramide: a perfusion MRI study in healthy volunteers.](#)

Fernández-Seara MA, Aznárez-Sanado M, Mengual E, Irigoyen J, Heukamp F, Pastor MA.

Br J Pharmacol. 2011 Aug;163(8):1639-52.

Perfusion studies other than on the brain

[Arterial spin labeling MR imaging for characterisation of renal masses in patients with impaired renal function: initial experience.](#)

Pedrosa I, Rafatzand K, Robson P, Wagner AA, Atkins MB, Rofsky NM, Alsop DC.
Eur Radiol. 2011 Aug 30. [Epub ahead of print]

[Neural Correlates of Chronic Low Back Pain Measured by Arterial Spin Labeling.](#)

Wasan AD, Loggia ML, Chen LQ, Napadow V, Kong J, Gollub RL.
Anesthesiology. 2011 Aug;115(2):364-374.

[Non-invasive pulmonary perfusion assessment in young patients with cystic fibrosis using an arterial spin labeling MR technique at 1.5 T.](#)

Schraml C, Schwenger NF, Martirosian P, Boss A, Schick F, Schäfer S, Stern M, Claussen CD, Schäfer JF.
MAGMA. 2011 Jul 24. [Epub ahead of print]

[Temporal course of perfusion in human masseter muscle during isometric contraction assessed by arterial spin labeling at 3T.](#)

Schraml C, Schwenger NF, Martirosian P, Claussen CD, Schick F.
MAGMA. 2011 Aug;24(4):201-9. Epub 2011 May 15.

[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 Aug 29;52(9):6867-74. Print 2011.

[Quantification of renal perfusion: Comparison of arterial spin labeling and dynamic contrast-enhanced MRI.](#)

Winter JD, St Lawrence KS, Margaret Cheng HL.
J Magn Reson Imaging. 2011 Jul 14. doi: 10.1002/jmri.22660. [Epub ahead of print]

Cerebral blood flow studies

[Effects of transcranial direct current stimulation \(tDCS\) on human regional cerebral blood flow.](#)

Zheng X, Alsop DC, Schlaug G.
Neuroimage. 2011 Sep 1;58(1):26-33. Epub 2011 Jun 16.

[Gender differences in partial-volume corrected brain perfusion using brain MRI in healthy children.](#)

Taki Y, Hashizume H, Sassa Y, Takeuchi H, Wu K, Asano M, Asano K, Fukuda H, Kawashima R.
Neuroimage. 2011 Jul 19. [Epub ahead of print]

CBF correlation with age

[Calibrated fMRI during a cognitive Stroop task reveals reduced metabolic response with increasing age.](#)

Mohtasib RS, Lumley G, Goodwin JA, Emsley HC, Sluming V, Parkes LM.
Neuroimage. 2011 Aug 5. [Epub ahead of print]

Reproducibility study

[Intra- and multicenter reproducibility of pulsed, continuous and pseudo-continuous arterial spin labeling methods for measuring cerebral perfusion.](#)

Gevers S, van Osch MJ, Bokkers RP, Kies DA, Teeuwisse WM, Majoie CB, Hendrikse J, Nederveen AJ.

J Cereb Blood Flow Metab. 2011 Aug;31(8):1706-15. doi: 10.1038/jcbfm.2011.10. Epub 2011 Feb 9.

Studies on special diseases

[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 Sep;82(9):1011-6. Epub 2011 Mar 8.

[Clinical Application of Arterial Spin-Labeling MR Imaging in Patients with Carotid Stenosis: Quantitative Comparative Study with Single-Photon Emission CT.](#)

Uchihashi Y, Hosoda K, Zimine I, Fujita A, Fujii M, Sugimura K, Kohmura E.

AJNR Am J Neuroradiol. 2011 Jul 14. [Epub ahead of print]

[Correlation between arterial blood volume obtained by arterial spin labelling and cerebral blood volume in intracranial tumours.](#)

van Westen D, Petersen ET, Wirestam R, Siemund R, Bloch KM, Ståhlberg F, Björkman-Burtscher IM, Knutsson L.

MAGMA. 2011 Aug;24(4):211-23. Epub 2011 May 19.

[EMERGING IMAGING TOOLS FOR USE WITH TRAUMATIC BRAIN INJURY RESEARCH.](#)

Hunter JV, Wilde EA, Tong K, Holshouser B.

J Neurotrauma. 2011 Jul 25. [Epub ahead of print]

[Muting the voice: a case of arterial spin labeling-monitored transcranial direct current stimulation treatment of auditory verbal hallucinations.](#)

Homan P, Kindler J, Federspiel A, Flury R, Hubl D, Hauf M, Dierks T.

Am J Psychiatry. 2011 Aug;168(8):853-4. No abstract available.

[Neurocognitive deficits in children with sickle cell disease are associated with the severity of anemia.](#)

Hijmans CT, Grootenhuis MA, Oosterlaan J, Heijboer H, Peters M, Fijnvandraat K.

Pediatr Blood Cancer. 2011 Aug;57(2):297-302. doi: 10.1002/pbc.22892. Epub 2010 Dec

[Neural Correlates of Chronic Low Back Pain Measured by Arterial Spin Labeling.](#)

Wasan AD, Loggia ML, Chen LQ, Napadow V, Kong J, Gollub RL.
Anesthesiology. 2011 Aug;115(2):364-374.

[Perfusion abnormalities in mild cognitive impairment and mild dementia in Alzheimer's disease measured by pulsed arterial spin labeling MRI.](#)

Alexopoulos P, Sorg C, Förchler A, Grimmer T, Skokou M, Wohlschläger A, Pernecky R, Zimmer C, Kurz A, Preibisch C.
Eur Arch Psychiatry Clin Neurosci. 2011 Jul 24. [Epub ahead of print]

[Resting quantitative cerebral blood flow in schizophrenia measured by pulsed arterial spin labeling perfusion MRI.](#)

Pinkham A, Loughhead J, Ruparel K, Wu WC, Overton E, Gur R, Gur R.
Psychiatry Res. 2011 Aug 8. [Epub ahead of print]

Comparison of ASL Techniques or ASL compared with other imaging methods

[3D GRASE PROPELLER: Improved image acquisition technique for arterial spin labeling perfusion imaging.](#)

Tan H, Hoge WS, Hamilton CA, Günther M, Kraft RA.
Magn Reson Med. 2011 Jul;66(1):168-73. doi: 10.1002/mrm.22768. Epub 2011 Jan 19.

[Accelerated territorial arterial spin labeling based on shared rotating control acquisition: an observer study for validation.](#)

Kamano H, Yoshiura T, Hiwatashi A, Yamashita K, Takayama Y, Nagao E, Sagiya K, Zimine I, Honda H.
Neuroradiology. 2011 Jul 26. [Epub ahead of print]

[Arterial Spin-Labeling MRI Can Identify the Presence and Intensity of Collateral Perfusion in Patients With Moyamoya Disease.](#)

Zaharchuk G, Do HM, Marks MP, Rosenberg J, Moseley ME, Steinberg GK.
Stroke. 2011 Jul 28. [Epub ahead of print]

[Clinical Application of Arterial Spin-Labeling MR Imaging in Patients with Carotid Stenosis: Quantitative Comparative Study with Single-Photon Emission CT.](#)

Uchihashi Y, Hosoda K, Zimine I, Fujita A, Fujii M, Sugimura K, Kohmura E.
AJNR Am J Neuroradiol. 2011 Jul 14. [Epub ahead of print]

[Nonenhanced extracranial carotid MR angiography using arterial spin labeling: Improved performance with pseudocontinuous tagging.](#)

Koktzoglou I, Gupta N, Edelman RR.
J Magn Reson Imaging. 2011 Aug;34(2):384-94. doi: 10.1002/jmri.22628.

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

Ouyang C, Sutton BP.
Magn Reson Med. 2011 Sep;66(3):768-76. doi: 10.1002/mrm.22815. Epub 2011 Mar 4.

[Quantification of renal perfusion: Comparison of arterial spin labeling and dynamic contrast-enhanced MRI.](#)

Winter JD, St Lawrence KS, Margaret Cheng HL.

J Magn Reson Imaging. 2011 Jul 14. doi: 10.1002/jmri.22660. [Epub ahead of print]

Functional Imaging / BOLD

[Arterial spin labeling for motor activation mapping at 3T with a 32-channel coil: Reproducibility and spatial accuracy in comparison with BOLD fMRI.](#)

Raoult H, Petr J, Bannier E, Stamm A, Gauvrit JY, Barillot C, Ferré JC.

Neuroimage. 2011 Sep 1;58(1):157-67. Epub 2011 Jun 14.

[Calibrated fMRI during a cognitive Stroop task reveals reduced metabolic response with increasing age.](#)

Mohtasib RS, Lumley G, Goodwin JA, Emsley HC, Sluming V, Parkes LM.

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

[fMRI fingerprint of unconditioned fear-like behavior in rats exposed to trimethylthiazoline.](#)

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Eur Neuropsychopharmacol. 2011 Aug 17. [Epub ahead of print]

[Impaired cerebral vasoreactivity to CO₂ in Alzheimer's disease using BOLD fMRI.](#)

S Cantin, Villien M, Moreaud O, Tropres I, Keignart S, Chipon E, Le Bas JF, Warnking J, Krainik A.

Neuroimage. 2011 Jul 1. [Epub ahead of print]

Physiological Parameters beside CBF

[A two-stage approach for measuring vascular water exchange and arterial transit time by diffusion-weighted perfusion MRI.](#)

St Lawrence KS, Owen D, Wang DJ.

Magn Reson Med. 2011 Aug 19. doi: 10.1002/mrm.23104. [Epub ahead of print]

[Comparison of arterial transit times estimated using arterial spin labeling.](#)

Chen Y, Wang DJ, Detre JA.

MAGMA. 2011 Aug 24. [Epub ahead of print]

Technical Improvement/ Parameter Optimisation/ Theoretical Papers/ Review Papers

[Correcting for the echo-time effect after measuring the cerebral blood flow by arterial spin labeling.](#)

Foucher JR, Roquet D, Marrer C, Pham BT, Gounot D.

J Magn Reson Imaging. 2011 Jul 18. doi: 10.1002/jmri.22678. [Epub ahead of print]

[OPTIMAL SAMPLING AND ESTIMATION IN PASL PERFUSION IMAGING.](#)

Santos N, Sanches J, Sousa I, Figueiredo P.

IEEE Trans Biomed Eng. 2011 Aug 15. [Epub ahead of print]

[Whole-brain cerebral blood flow mapping using 3D echo planar imaging and pulsed arterial tagging.](#)

Gai ND, Talagala SL, Butman JA.

J Magn Reson Imaging. 2011 Feb;33(2):287-95. doi: 10.1002/jmri.22437.

Review Paper/ Historical Review

[Record of a single fMRI experiment in May of 1991.](#)

Kwong KK.

Neuroimage. 2011 Aug 3. [Epub ahead of print]

Job offerings

- ❖ You find attached a job offer at Matthias Günther's group at Fraunhofer MEVIS.

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