

Dear Colleagues.

Here is the ASL Newsletter No. 8 for the first two month of 2011.

Cheers,
Johanna

Recent publications January & February 2011, (e-publications might have been earlier):

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Animal studies

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

Hayward NM, Tuunanen PI, Immonen R, Ndode-Ekane XE, Pitkänen A, Gröhn O.
J Cereb Blood Flow Metab. 2011 Jan;31(1):166-77. Epub 2010 May 19.

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

Muir ER, Duong TQ.
NMR Biomed. 2011 Feb;24(2):216-23. doi: 10.1002/nbm.1576. Epub 2010 Sep 6.

[Noninvasive MRI measures of microstructural and cerebrovascular changes during normal swine brain development.](#)

Winter JD, Dorner S, Lukovic J, Fisher JA, St Lawrence K, Kassner A.
Pediatr Res. 2011 Jan 20. [Epub ahead of print]

[Quantification of myocardial blood flow and flow reserve in rats using arterial spin labeling MRI: comparison with a fluorescent microsphere technique.](#)

Jacquier A, Kober F, Bun S, Giorgi R, Cozzone PJ, Bernard M.
NMR Biomed. 2011 Jan 25. doi: 10.1002/nbm.1645. [Epub ahead of print]

Drug studies

[Alcohol Effects on Cerebral Blood Flow in Subjects With Low and High Responses to Alcohol.](#)

Tolentino NJ, Wierenga CE, Hall S, Tapert SF, Paulus MP, Liu TT, Smith TL, Schuckit MA.
Alcohol Clin Exp Res. 2011 Feb 17. doi: 10.1111/j.1530-0277.2011.01435.x. [Epub ahead of print]

[Potentials and Challenges for Arterial Spin Labeling \(ASL\) in Pharmacological MRI \(phMRI\).](#)

Wang DJ, Chen Y, Fernandez Seara MA, Detre JA.
J Pharmacol Exp Ther. 2011 Feb 11. [Epub ahead of print]

[Pseudocontinuous arterial spin labeling reveals dissociable effects of morphine and alcohol on regional cerebral blood flow.](#)

Khalili-Mahani N, van Osch MJ, Baerends E, Soeter RP, de Kam M, Zoethout RW, Dahan A, van Buchem MA, van Gerven JM, Rombouts SA.
J Cereb Blood Flow Metab. 2011 Jan 19. [Epub ahead of print]

[Quantification of Cerebral Blood Flow as Biomarker of Drug Effect: Arterial Spin Labeling phMRI After a Single Dose of Oral Citalopram.](#)

Chen Y, Wan HI, O'Reardon JP, Wang DJ, Wang Z, Korczykowski M, Detre JA.
Clin Pharmacol Ther. 2011 Feb;89(2):251-8. Epub 2010 Dec 29.

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. 2011 Jan;29(1):74-82. Epub 2010 Sep 17.

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

Maleki N, Dai W, Alsop DC.
NMR Biomed. 2011 Jan;24(1):104-11. doi: 10.1002/nbm.1564. Epub 2010 Sep 22.

[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. 2011 Feb;16(1):22-8. Epub 2010 Sep 20.

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

Muir ER, Duong TQ.
NMR Biomed. 2011 Feb;24(2):216-23. doi: 10.1002/nbm.1576. Epub 2010 Sep 6.

[Quantification of myocardial blood flow and flow reserve in rats using arterial spin labeling MRI: comparison with a fluorescent microsphere technique.](#)

Jacquier A, Kober F, Bun S, Giorgi R, Cozzone PJ, Bernard M.
NMR Biomed. 2011 Jan 25. doi: 10.1002/nbm.1645. [Epub ahead of print]

Cerebral blood flow studies

[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. 2011 Jan 1;24(1):34-42. Epub 2010 Oct 15.

[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. 2011 Jan;65(1):128-37.

CBF correlation with age

[Correlation between gray matter density-adjusted brain perfusion and age using brain MR images of 202 healthy children.](#)

Taki Y, Hashizume H, Sassa Y, Takeuchi H, Wu K, Asano M, Asano K, Fukuda H, Kawashima R.
Hum Brain Mapp. 2011 Jan 21. doi: 10.1002/hbm.21163. [Epub ahead of print]

[Noninvasive MRI measures of microstructural and cerebrovascular changes during normal swine brain development.](#)

Winter JD, Dorner S, Lukovic J, Fisher JA, St Lawrence K, Kassner A.
Pediatr Res. 2011 Jan 20. [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 Feb 9. [Epub ahead of print]

[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. 2011 Jan 15;54(2):1188-95. Epub 2010 Aug 25.

Regional comparison

[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. 2011 Jan;21(1):233-44. Epub 2010 May 19.

[Correlation between gray matter density-adjusted brain perfusion and age using brain MR images of 202 healthy children.](#)

Taki Y, Hashizume H, Sassa Y, Takeuchi H, Wu K, Asano M, Asano K, Fukuda H, Kawashima R.

Hum Brain Mapp. 2011 Jan 21. doi: 10.1002/hbm.21163. [Epub ahead of print]

Determination of spin compartment

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

Liu P, Uh J, Lu H.

Magn Reson Med. 2011 Jan;65(1):120-7.

Studies on special diseases

[Arterial spin-labeling MR imaging in moyamoya disease compared with SPECT imaging.](#)

Noguchi T, Kawashima M, Irie H, Ootsuka T, Nishihara M, Matsushima T, Kudo S.

Eur J Radiol. 2011 Feb 9. [Epub ahead of print]

[Arterial spin labelling reveals an abnormal cerebral perfusion pattern in Parkinson's disease.](#)

Melzer TR, Watts R, Macaskill MR, Pearson JF, Rüeger S, Pitcher TL, Livingston L, Graham C, Keenan R, Shankaranarayanan A, Alsop DC, Dalrymple-Alford JC, Anderson TJ. Brain. 2011 Feb 9. [Epub ahead of print]

[Cerebral blood flow is reduced in chronic fatigue syndrome as assessed by arterial spin labeling.](#)

Biswal B, Kunwar P, Natelson BH. J Neurol Sci. 2011 Feb 15;301(1-2):9-11. Epub 2010 Dec 16.

[Early Evaluation of Tumoral Response to Antiangiogenic Therapy by Arterial Spin Labeling Perfusion Magnetic Resonance Imaging and Susceptibility Weighted Imaging in a Patient With Recurrent Glioblastoma Receiving Bevacizumab.](#)

Fellah S, Girard N, Chinot O, Cozzone PJ, Callot V. J Clin Oncol. 2011 Jan 24. [Epub ahead of print] No abstract available.

[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. 2011 Feb;31(2):671-9. Epub 2010 Sep 15.

[\[Grading of adults primitive glial neoplasms using arterial spin-labeled perfusion MR imaging.\]](#)

Canale S, Rodrigo S, Tourdias T, Mellerio C, Perrin M, Souillard R, Oppenheim C, Meder JF. J Neuroradiol. 2011 Feb 24. [Epub ahead of print] French.

[Intracranial Hemodynamics Is Altered by Carotid Artery Disease and After Endarterectomy: A Dynamic Magnetic Resonance Angiography Study.](#)

Macintosh BJ, Sideso E, Donahue MJ, Chappell MA, Günther M, Handa A, Kennedy J, Jezzard P. Stroke. 2011 Feb 24. [Epub ahead of print]

[Patterns of altered cortical perfusion and diminished subcortical integrity in posttraumatic stress disorder: An 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. 2011 Jan;54S1:S62-S68. Epub 2010 May 17.

[Response of arteriovenous malformations to gamma knife therapy evaluated with pulsed arterial spin-labeling MRI perfusion.](#)

Pollock JM, Whitlow CT, Simonds J, Stevens EA, Kraft RA, Burdette JH, Maldjian JA. AJR Am J Roentgenol. 2011 Jan;196(1):15-22.

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 Jan 19. doi: 10.1002/mrm.22768. [Epub ahead of print]

[MR Angiography and Arterial Spin Labelling.](#)

Thomas D, Wells J.

Methods Mol Biol. 2011;711:327-45.

[Time spatial labeling inversion pulse cerebral MR angiography without subtraction by use of dual inversion recovery background suppression.](#)

Ishimori Y, Monma M, Kawamura H, Miyata T.

Radiol Phys Technol. 2011 Jan;4(1):78-83. Epub 2010 Dec 1.

Functional Imaging / BOLD

[Age-associated reductions in cerebral blood flow are independent from regional atrophy.](#)

Chen JJ, Rosas HD, Salat DH.

Neuroimage. 2011 Mar 15;55(2):468-78. Epub 2010 Dec 16.

[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. 2011 Feb;31(2):715-24. Epub 2010 Sep 8.

[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. 2011 Jan;21(1):233-44. Epub 2010 May 19.

[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. 2011 Jan 15;54(2):1518-29. Epub 2010 Sep 17.

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

Gauthier CJ, Madjar C, Tancredi FB, Stefanovic B, Hoge RD.

Neuroimage. 2011 Jan 15;54(2):1001-11. Epub 2010 Sep 29.

[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. 2011 Mar;32(3):341-57. doi: 10.1002/hbm.21024.

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

Mark CI, Fisher JA, Pike GB.

Neuroimage. 2011 Jan 15;54(2):1102-11. Epub 2010 Sep 7.

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

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

J Cereb Blood Flow Metab. 2011 Feb;31(2):560-71. Epub 2010 Aug 11.

Technical Improvement/ Parameter Optimisation/ Theoretical Papers/ Review Papers

[Background suppression in arterial spin labeling MRI with a separate neck labeling coil.](#)

Shen Q, Duong TQ.

NMR Biomed. 2011 Feb 4. doi: 10.1002/nbm.1666. [Epub ahead of print]

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

Viviani R.

Neuroimage. 2011 Feb 1;54(3):2066-78. Epub 2010 Oct 23.

[Partial volume correction of multiple inversion time arterial spin labeling MRI data.](#)

Chappell MA, Groves AR, Macintosh BJ, Donahue MJ, Jezard P, Woolrich MW.

Magn Reson Med. 2011 Feb 17. doi: 10.1002/mrm.22641. [Epub ahead of print] No abstract available.

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