

Dear Colleagues.

Here is the ASL Newsletter No. 10.  
I wish you all a nice summer.

Cheers,  
Johanna

## Recent publications May & June 2011, (e-publications might have been earlier):

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## Animal studies

[Arterial spin labeling and dynamic susceptibility contrast CBF MRI in postischemic hyperperfusion, hypercapnia, and after mannitol injection.](#)

Tanaka Y, Nagaoka T, Nair G, Ohno K, Duong TQ.

J Cereb Blood Flow Metab. 2011 Jun;31(6):1403-11. Epub 2010 Dec 22.

[High-sensitivity cerebral perfusion mapping in mice by kbGRASE-FAIR at 9.4 T.](#)

Zheng B, Lee PT, Golay X.

NMR Biomed. 2010 Nov;23(9):1061-70.

[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 Jun 1. [Epub ahead of print]

[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 Jun 24. [Epub ahead of print]

## Pharmacological / 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 Jun;35(6):1034-40. doi: 10.1111/j.1530-0277.2011.01435.x.

Epub 2011 Feb 17.

[Effects of alcohol intoxication and gender on cerebral perfusion: an arterial spin labeling study.](#)

Rickenbacher E, Greve DN, Azma S, Pfeuffer J, Marinkovic K.

Alcohol. 2011 May 26. [Epub ahead of print]

[Potentials and challenges for arterial spin labeling in pharmacological magnetic resonance imaging.](#)

Wang DJ, Chen Y, Fernández-Seara MA, Detre JA.

J Pharmacol Exp Ther. 2011 May;337(2):359-66. Epub 2011 Feb 11.

## Perfusion studies other than on the brain

[Magnetic Resonance Imaging Quantification of Pulmonary Perfusion using Calibrated Arterial Spin Labeling.](#)

Arai TJ, Prisk GK, Holverda S, S 225 RC, Theilmann RJ, Henderson AC, Cronin MV, Buxton RB, Hopkins SR.

J Vis Exp. 2011 May 30;(51). pii: 2712. doi: 10.3791/2712.

### [MRI of blood flow of the human retina.](#)

Peng Q, Zhang Y, Nateras OS, van Osch MJ, Duong TQ.

Magn Reson Med. 2011 Jun;65(6):1768-75. doi: 10.1002/mrm.22763. Epub 2011 Feb 24.

### [Reproducibility of renal perfusion MR imaging in native and transplanted kidneys using non-contrast arterial spin labeling.](#)

Artz NS, Sadowski EA, Wentland AL, Djamali A, Grist TM, Seo S, Fain SB.

J Magn Reson Imaging. 2011 Jun;33(6):1414-21. doi: 10.1002/jmri.22552.

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

Schraml C, Schwenzer NF, Martirosian P, Claussen CD, Schick F.

MAGMA. 2011 May 15. [Epub ahead of print]

## Cerebral blood flow studies

### [Pulsed arterial spin labeling perfusion imaging at 3 T: estimating the number of subjects required in common designs of clinical trials.](#)

Murphy K, Harris AD, Diukova A, Evans CJ, Lythgoe DJ, Zelaya F, Wise RG.

Magn Reson Imaging. 2011 May 3. [Epub ahead of print]

## CBF correlation with age

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

Winter JD, Dorner S, Lukovic J, Fisher JA, St Lawrence KS, Kassner A.

Pediatr Res. 2011 May;69(5 Pt 1):418-24.

## Studies on special diseases

### [Arterial spin label imaging of acute ischemic stroke and transient ischemic attack.](#)

Zaharchuk G.

Neuroimaging Clin N Am. 2011 May;21(2):285-301.

### [Association Between Central Elastic Artery Stiffness and Cerebral Perfusion in Deep Subcortical Gray and White Matter.](#)

Tarumi T, Shah F, Tanaka H, Haley AP.

Am J Hypertens. 2011 Jun 9. doi: 10.1038/ajh.2011.101. [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 May 19. [Epub ahead of print]

[Magnetic resonance perfusion imaging of resting-state cerebral blood flow in preclinical Huntington's disease.](#)

Wolf RC, Grön G, Sambataro F, Vasic N, Wolf ND, Thomann PA, Saft C, Landwehrmeyer GB, Orth M.

J Cereb Blood Flow Metab. 2011 May 11. [Epub ahead of print]

[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 Dec1.

[Resting state cerebral blood flow and objective motor activity reveal basal ganglia dysfunction in schizophrenia.](#)

Walther S, Federspiel A, Horn H, Razavi N, Wiest R, Dierks T, Strik W, Müller TJ.

Psychiatry Res. 2011 May 31;192(2):117-24. Epub 2011 Apr 20.

## 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.

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

Park SH, Duong TQ.

Magn Reson Med. 2011 Jun;65(6):1578-91. doi: 10.1002/mrm.22580. Epub 2010 Sep 21.

[Pseudocontinuous arterial spin labeling perfusion magnetic resonance imaging-A normative study of reproducibility in the human brain.](#)

Wu WC, Jiang SF, Yang SC, Lien SH.

Neuroimage. 2011 Jun 1;56(3):1244-50. Epub 2011 Mar 6.

[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 May;31(5):1321-33. Epub 2011 Jan 19.

## 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 Jun 17. [Epub ahead of print]

[Cortical activation and lamina terminalis functional connectivity during thirst and drinking in humans.](#)

Farrell MJ, Bowala TK, Gavrilescu M, Phillips PA, McKinley MJ, McAllen RM, Denton DA, Egan GF.

Am J Physiol Regul Integr Comp Physiol. 2011 Jun 15. [Epub ahead of print]

[Real-time functional MRI using pseudo-continuous arterial spin labeling.](#)

Hernandez-Garcia L, Jahanian H, Greenwald MK, Zubieta JK, Peltier SJ.

Magn Reson Med. 2011 Jun;65(6):1570-7. doi: 10.1002/mrm.22922. Epub 2011 Mar 28.

## Physiological Parameters beside CBF

[Phase-based regional oxygen metabolism \(PROM\) using MRI.](#)

Fan AP, Benner T, Bolar DS, Rosen BR, Adalsteinsson E.

Magn Reson Med. 2011 Jun 28. doi: 10.1002/mrm.23050. [Epub ahead of print]

## Technical Improvement/ Parameter Optimisation/ Theoretical Papers/ Review Papers

[Arterial spin labeling angiography using a triple inversion recovery prepulse.](#)

Andia ME, Botnar RM.

Magn Reson Med. 2011 Jun 7. doi: 10.1002/mrm.23028. [Epub ahead of print]

## Review Paper

[Evolution of brain imaging instrumentation.](#)

Abraham T, Feng J.

Semin Nucl Med. 2011 May;41(3):202-19.

## Job offerings

If you have any vacancies send them to [jobs@asl-network.org](mailto:jobs@asl-network.org)

## Feature articles

If you like to write a comment on an interesting article mail it to [newsletter@asl-network.org](mailto:newsletter@asl-network.org)