

Dear Colleagues.

Here is the ASL Newsletter No. 18.

In the April Newsletter we introduced our new Homepage. Many of you have already created an account (please add pictures) but the group profiles are still rare. Please create them.

www.asl-network.org

Cheers,
Johanna

Recent publications May 2012, (e-publications might have been earlier):

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Animal studies

[Absolute cerebral blood flow quantification with pulsed arterial spin labeling during hyperoxia corrected with the simultaneous measurement of the longitudinal relaxation time of arterial blood.](#)

Pilkinton DT, Hiraki T, Detre JA, Greenberg JH, Reddy R.

Magn Reson Med. 2012 Jun;67(6):1556-65. doi: 10.1002/mrm.23137. Epub 2011 Aug 29.

[Imaging trait anxiety in high anxiety F344 rats: Focus on the dorsomedial prefrontal cortex.](#)

Prinssen EP, Nicolas LB, Klein S, Grundschober C, Lopez-Lopez C, Keßler MS, Bruns A, von Kienlin M, Wettstein JG, Moreau JL, Risterucci C.

Eur Neuropsychopharmacol. 2012 Jun;22(6):441-51. Epub 2011 Dec 6.

[Pseudo-continuous arterial spin labeling at very high magnetic field \(11.75 T\) for high-resolution mouse brain perfusion imaging.](#)

Duhamel G, Callot V, Tachrount M, Alsop DC, Cozzone PJ.

Magn Reson Med. 2012 May;67(5):1225-36. doi: 10.1002/mrm.23096. Epub 2011 Oct 19.

Cerebral blood flow studies

Studies on special diseases

[Arterial spin labeling fMRI measurements of decreased blood flow in primary visual cortex correlates with decreased visual function in human glaucoma.](#)

Duncan RO, Sample PA, Bowd C, Weinreb RN, Zangwill LM.

Vision Res. 2012 May 1;60:51-60. Epub 2012 Mar 29.

[Arterial spin labeling \(ASL\) magnetic resonance imaging in acute confusional migraine of childhood.](#)

Kossorotoff M, Calmon R, Grevent D, Gitiaux C, Desguerre I, Heilbronner C, Uettwiller M, Savard S, Brunelle F, Boddaert N.

J Neuroradiol. 2012 May 24. [Epub ahead of print] No abstract available.

[Automated perfusion imaging for the evaluation of transient ischemic attack.](#)

Kleinman JT, Zaharchuk G, Mlynash M, Ogdie AA, Straka M, Lansberg MG, Schwartz NE, Kemp S, Bammer R, Albers GW, Olivot JM.

Stroke. 2012 Jun;43(6):1556-60. Epub 2012 Apr 3.

[Effect of mild cognitive impairment and APOE genotype on resting cerebral blood flow and its association with cognition.](#)

Wierenga CE, Dev SI, Shin DD, Clark LR, Bangen KJ, Jak AJ, Rissman RA, Liu TT, Salmon DP, Bondi MW.

J Cereb Blood Flow Metab. 2012 May 2. doi: 10.1038/jcbfm.2012.58. [Epub ahead of print]

[Hemodynamic Alterations in Vertebrobasilar Large Artery Disease Assessed by Arterial Spin-Labeling MR Imaging.](#)

Macintosh BJ, Marquardt L, Schulz UG, Jezzard P, Rothwell PM.
AJNR Am J Neuroradiol. 2012 May 3. [Epub ahead of print]

[Ictal focal hyperperfusion demonstrated by arterial spin-labeling perfusion MRI in partial epilepsy status.](#)

Oishi M, Ishida G, Morii K, Hasegawa K, Sato M, Fujii Y.
Neuroradiology. 2012 Jun;54(6):653-6. Epub 2012 Mar 16. No abstract available.

[The relationship of resting cerebral blood flow and brain activation during a social cognition task in adolescents with chronic moderate to severe traumatic brain injury: a preliminary investigation.](#)

Newsome MR, Scheibel RS, Chu Z, Hunter JV, Li X, Wilde EA, Lu H, Wang ZJ, Lin X, Steinberg JL, Vasquez AC, Cook L, Levin HS.
Int J Dev Neurosci. 2012 May;30(3):255-66. Epub 2011 Nov 22.

[Vascular disorders: insights from arterial spin labeling.](#)

Hendrikse J, Petersen ET, Golay X.
Neuroimaging Clin N Am. 2012 May;22(2):259-69. Epub 2012 Mar 8.

[Whole-Brain Arterial Spin Labeling Perfusion MRI in Patients With Acute Stroke.](#)

Bokkers RP, Hernandez DA, Merino JG, Mirasol RV, van Osch MJ, Hendrikse J, Warach S, Latour LL; on behalf of the National Institutes of Health Stroke Natural History Investigators.
Stroke. 2012 May;43(5):1290-1294. Epub 2012 Mar 15.

Single case study

[Imaging the neural correlates of neuropathic pain and pleasurable relief associated with inherited erythromelalgia in a single subject with quantitative arterial spin labelling.](#)

Segerdahl AR, Xie J, Paterson K, Ramirez JD, Tracey I, Bennett DL.
Pain. 2012 May;153(5):1122-7. Epub 2012 Feb 24.

Comparison of ASL Techniques or ASL compared with other imaging methods

[Comparison of relative cerebral blood flow maps using pseudo-continuous arterial spin labeling and single photon emission computed tomography.](#)

Liu P, Uh J, Devous MD, Adinoff B, Lu H.
NMR Biomed. 2012 May;25(5):779-86. doi: 10.1002/nbm.1792. Epub 2011 Dec 2.

[Estimation of intersubject variability of cerebral blood flow measurements using MRI and positron emission tomography.](#)

Henriksen OM, Larsson HB, Hansen AE, Grüner JM, Law I, Rostrup E.
J Magn Reson Imaging. 2012 Jun;35(6):1290-9. doi: 10.1002/jmri.23579. Epub 2012 Jan

[Whole-Brain Arterial Spin Labeling Perfusion MRI in Patients With Acute Stroke.](#)

Bokkers RP, Hernandez DA, Merino JG, Mirasol RV, van Osch MJ, Hendrikse J, Warach S, Latour LL; on behalf of the National Institutes of Health Stroke Natural History Investigators.

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Functional Imaging / BOLD

[Arterial spin labeling fMRI measurements of decreased blood flow in primary visual cortex correlates with decreased visual function in human glaucoma.](#)

Duncan RO, Sample PA, Bowd C, Weinreb RN, Zangwill LM.

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[The relationship of resting cerebral blood flow and brain activation during a social cognition task in adolescents with chronic moderate to severe traumatic brain injury: a preliminary investigation.](#)

Newsome MR, Scheibel RS, Chu Z, Hunter JV, Li X, Wilde EA, Lu H, Wang ZJ, Lin X, Steinberg JL, Vasquez AC, Cook L, Levin HS.

Int J Dev Neurosci. 2012 May;30(3):255-66. Epub 2011 Nov 22.

[Theta burst TMS increases cerebral blood flow in the primary motor cortex during motor performance as assessed by arterial spin labeling \(ASL\).](#)

Orosz A, Jann K, Wirth M, Wiest R, Dierks T, Federspiel A.

Neuroimage. 2012 Jul 2;61(3):599-605. Epub 2012 Apr 12.

[Thirty minute transcutaneous electric acupoint stimulation modulates resting state brain activities: A perfusion and BOLD fMRI study.](#)

Jiang Y, Hao Y, Zhang Y, Liu J, Wang X, Han J, Fang J, Zhang J, Cui C.

Brain Res. 2012 May 31;1457:13-25. Epub 2012 Apr 3.

[Uncovering a context-specific connective fingerprint of human dorsal premotor cortex.](#)

Moisa M, Siebner HR, Pohmann R, Thielscher A.

J Neurosci. 2012 May 23;32(21):7244-52.

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. 2012 May;67(5):1275-84. doi: 10.1002/mrm.23104. Epub 2011 Aug 19.

[Hemodynamic Alterations in Vertebrobasilar Large Artery Disease Assessed by Arterial Spin-Labeling MR Imaging.](#)

Macintosh BJ, Marquardt L, Schulz UG, Jeppard P, Rothwell PM.

AJNR Am J Neuroradiol. 2012 May 3. [Epub ahead of print]

Technical Improvement/ Parameter Optimisation/ Theoretical Papers

[A fast analysis method for non-invasive imaging of blood flow in individual cerebral arteries using vessel-encoded arterial spin labelling angiography.](#)

Chappell MA, Okell TW, Payne SJ, Jezzard P, Woolrich MW.
Med Image Anal. 2012 May;16(4):831-9. Epub 2011 Dec 27.

[An optimized velocity selective arterial spin labeling module with reduced eddy current sensitivity for improved perfusion quantification.](#)

Meakin JA, Jezzard P.
Magn Reson Med. 2012 May 3. doi: 10.1002/mrm.24302. [Epub ahead of print]

[Improving quality of arterial spin labeling MR imaging at 3 tesla with a 32-channel coil and parallel imaging.](#)

Ferré JC, Petr J, Bannier E, Barillot C, Gauvrit JY.
J Magn Reson Imaging. 2012 May;35(5):1233-9. doi: 10.1002/jmri.23586. Epub 2012 Jan 13.

[Reduced resolution transit delay prescan for quantitative continuous arterial spin labeling perfusion imaging.](#)

Dai W, Robson PM, Shankaranarayanan A, Alsop DC.
Magn Reson Med. 2012 May;67(5):1252-65. doi: 10.1002/mrm.23103. Epub 2011 Nov 14.

[Volumetric measurement of perfusion and arterial transit delay using hadamard encoded continuous arterial spin labeling.](#)

Dai W, Shankaranarayanan A, Alsop DC.
Magn Reson Med. 2012 May 22. doi: 10.1002/mrm.24335. [Epub ahead of print]

Review Paper

[Applications of arterial spin labeled MRI in the brain.](#)

Detre JA, Rao H, Wang DJ, Chen YF, Wang Z.
J Magn Reson Imaging. 2012 May;35(5):1026-37. doi: 10.1002/jmri.23581. Epub 2012 Jan 13.

[Arterial spin labeling MRI: an emerging biomarker for Alzheimer's disease and other neurodegenerative conditions.](#)

Wolk DA, Detre JA.
Curr Opin Neurol. 2012 May 18. [Epub ahead of print]

[Current status and future perspectives of magnetic resonance high-field imaging: a summary.](#)

Prabhakaran V, Nair VA, Austin BP, La C, Gallagher TA, Wu Y, McLaren DG, Xu G, Turski P, Rowley H.
Neuroimaging Clin N Am. 2012 May;22(2):373-97.

[Pediatric high-field magnetic resonance imaging.](#)

Dahmouh HM, Vossough A, Roberts TP.

Neuroimaging Clin N Am. 2012 May;22(2):297-313. Epub 2012 Mar 28.

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 editor@asl-network.org