

Dear Colleagues.

Here is the ASL Newsletter No. 16.

Happy Easter!

Cheers,
Johanna

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

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Animal studies

[Blood flow and anatomical MRI in a mouse model of retinitis pigmentosa.](#)

Muir ER, De La Garza B, Duong TQ.

Magn Reson Med. 2012 Mar 5. doi: 10.1002/mrm.24232. [Epub ahead of print]

[Cardiac arterial spin labeling using segmented ECG-gated Look-Locker FAIR: Variability and repeatability in preclinical studies.](#)

Campbell-Washburn AE, Price AN, Wells JA, Thomas DL, Ordidge RJ, Lythgoe MF.

Magn Reson Med. 2012 Mar 12. doi: 10.1002/mrm.24243. [Epub ahead of print]

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

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

Eur Neuropsychopharmacol. 2012 Mar;22(3):222-30.

[Pharmacological modulation of functional connectivity: \$\alpha\(2\)\$ -adrenergic receptor agonist alters synchrony but not neural activation.](#)

Nasrallah FA, Tan J, Chuang KH.

Neuroimage. 2012 Mar;60(1):436-46. Epub 2011 Dec 22.

Pharmacological / Drug studies

[Acute effects of single-dose aripiprazole and haloperidol on resting cerebral blood flow \(rCBF\) in the human brain.](#)

Handley R, Zelaya FO, Reinders AA, Marques TR, Mehta MA, O'Gorman R, Alsop DC, Taylor H, Johnston A, Williams S, McGuire P, Pariante CM, Kapur S, Dazzan P.

Hum Brain Mapp. 2012 Mar 25. doi: 10.1002/hbm.21436. [Epub ahead of print]

[Altered cerebral blood flow and neurocognitive correlates in adolescent cannabis users.](#)

Jacobus J, Goldenberg D, Wierenga CE, Tolentino NJ, Liu TT, Tapert SF.

Psychopharmacology (Berl). 2012 Mar 7. [Epub ahead of print]

[Changes in regional cerebral blood flow and functional connectivity in the cholinergic pathway associated with cognitive performance in subjects with mild Alzheimer's disease after 12-week donepezil treatment.](#)

Li W, Antuono PG, Xie C, Chen G, Jones JL, Ward BD, Franczak MB, Goveas JS, Li SJ.

Neuroimage. 2012 Apr 2;60(2):1083-91. Epub 2012 Jan 8.

[Dissociable effects of methylphenidate, atomoxetine and placebo on regional cerebral blood flow in healthy volunteers at rest: A multi-class pattern recognition approach.](#)

Marquand AF, O'Daly OG, De Simoni S, Alsop DC, Maguire RP, Williams SC, Zelaya FO, Mehta MA.

Neuroimage. 2012 Apr 2;60(2):1015-24. Epub 2012 Jan 14.

[Effect of paroxetine and bupropion on human resting brain perfusion: An arterial spin labeling study.](#)

Viviani R, Abler B, Seeringer A, Stingl JC.
Neuroimage. 2012 Mar 13. [Epub ahead of print]

[Pharmacological modulation of functional connectivity: \$\alpha\(2\)\$ -adrenergic receptor agonist alters synchrony but not neural activation.](#)

Nasrallah FA, Tan J, Chuang KH.
Neuroimage. 2012 Mar;60(1):436-46. Epub 2011 Dec 22.

[The response to rapid infusion of fentanyl in the human brain measured using pulsed arterial spin labelling.](#)

Zelaya FO, Zois E, Muller-Pollard C, Lythgoe DJ, Lee S, Andrews C, Smart T, Conrod P, Vennart W, Williams SC, Mehta MA, Reed LJ.
MAGMA. 2012 Apr;25(2):163-75. Epub 2011 Nov 24.

Perfusion studies other than on the brain

[Blood flow and anatomical MRI in a mouse model of retinitis pigmentosa.](#)

Muir ER, De La Garza B, Duong TQ.
Magn Reson Med. 2012 Mar 5. doi: 10.1002/mrm.24232. [Epub ahead of print]

[Cardiac arterial spin labeling using segmented ECG-gated Look-Locker FAIR: Variability and repeatability in preclinical studies.](#)

Campbell-Washburn AE, Price AN, Wells JA, Thomas DL, Ordidge RJ, Lythgoe MF.
Magn Reson Med. 2012 Mar 12. doi: 10.1002/mrm.24243. [Epub ahead of print]

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

Schraml C, Schwenzler NF, Martirosian P, Boss A, Schick F, Schäfer S, Stern M, Claussen CD, Schäfer JF.
MAGMA. 2012 Apr;25(2):155-62. Epub 2011 Jul 24.

[Rapid intravenous infusion of 20 mL/kg saline alters the distribution of perfusion in healthy supine humans.](#)

Henderson AC, Sá RC, Barash IA, Holverda S, Buxton RB, Hopkins SR, Prisk GK.
Respir Physiol Neurobiol. 2012 Mar 15;180(2-3):331-41. Epub 2011 Dec 31.

[Repeatability of renal arterial spin labelling MRI in healthy subjects.](#)

Cutajar M, Thomas DL, Banks T, Clark CA, Golay X, Gordon I.
MAGMA. 2012 Apr;25(2):145-53. Epub 2012 Jan 13.

Cerebral blood flow studies

Studies on special diseases

[Arterial spin labeling measurement of cerebral perfusion in children with sickle cell disease.](#)

Gevers S, Nederveen AJ, Fijnvandraat K, van den Berg SM, van Ooij P, Heijtel DF, Heijboer H, Nederkoorn PJ, Engelen M, van Osch MJ, Majoie CB.
J Magn Reson Imaging. 2012 Apr;35(4):779-87. doi: 10.1002/jmri.23505. Epub 2011 Nov 16.

[Cortical hypoperfusion in Parkinson's disease assessed using arterial spin labeled perfusion MRI.](#)

Fernández-Seara MA, Mengual E, Vidorreta M, Aznárez-Sanado M, Loayza FR, Villagra F, Irigoyen J, Pastor MA.
Neuroimage. 2012 Feb 1;59(3):2743-50. Epub 2011 Oct 18.

[Crossed cerebellar hyperperfusion after MELAS attack followed up by whole brain continuous arterial spin labeling perfusion imaging.](#)

Tsujikawa T, Yamamoto T, Ikawa M, Yoneda M, Kimura H.
Acta Radiol. 2012 Mar 1;53(2):220-2. Epub 2011 Dec 2.

[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 Mar 16. [Epub ahead of print] No abstract available.

[Measuring the neural response to continuous intramuscular infusion of hypertonic saline by perfusion MRI.](#)

Owen DG, Clarke CF, Bureau Y, Ganapathy S, Prato FS, St Lawrence KS.
J Magn Reson Imaging. 2012 Mar;35(3):669-77. doi: 10.1002/jmri.22814. Epub 2011 Sep

[Orbitofrontal cortex and impulsivity in borderline personality disorder: an MRI study of baseline brain perfusion.](#)

Wolf RC, Thomann PA, Sambataro F, Vasic N, Schmid M, Wolf ND.
Eur Arch Psychiatry Clin Neurosci. 2012 Mar 11. [Epub ahead of print]

[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 Mar 15. [Epub ahead of print]

Single case study

[Crossed cerebellar hyperperfusion after MELAS attack followed up by whole brain continuous arterial spin labeling perfusion imaging.](#)

Tsujikawa T, Yamamoto T, Ikawa M, Yoneda M, Kimura H.
Acta Radiol. 2012 Mar 1;53(2):220-2. Epub 2011 Dec 2.

Comparison of ASL Techniques or ASL compared with other imaging methods

[Arterial spin labeling at 3.0 tesla in subacute ischemia : comparison to dynamic susceptibility perfusion.](#)

Huck S, Kerl HU, Al-Zghloul M, Groden C, Nölte I.
Clin Neuroradiol. 2012 Mar;22(1):29-37. Epub 2012 Jan 20.

[Emerging imaging tools for use with traumatic brain injury research.](#)

Hunter JV, Wilde EA, Tong KA, Holshouser BA.
J Neurotrauma. 2012 Mar 1;29(4):654-71. Epub 2011 Oct 17.

[Feasibility of pseudocontinuous arterial spin labeling at 7 T with whole-brain coverage.](#)

Ghariq E, Teeuwisse WM, Webb AG, van Osch MJ.
MAGMA. 2012 Apr;25(2):83-93. Epub 2011 Dec 27.

[Measurement of Blood Flow in Arteriovenous Malformations before and after Embolization Using Arterial Spin Labeling.](#)

Suazo L, Foerster B, Fermin R, Speckter H, Vilchez C, Oviedo J, Stoeter P.
Interv Neuroradiol. 2012 Mar;18(1):42-8. Epub 2012 Mar 16.

[Pseudocontinuous arterial spin labeling quantifies relative cerebral blood flow in acute stroke.](#)

Hernandez DA, Bokkers RP, Mirasol RV, Luby M, Henning EC, Merino JG, Warach S, Latour LL.
Stroke. 2012 Mar;43(3):753-8. Epub 2012 Feb 16.

[Quantitative measurement of cerebral physiology using respiratory-calibrated MRI.](#)

Bulte DP, Kelly M, Germuska M, Xie J, Chappell MA, Okell TW, Bright MG, Jezzard P.
Neuroimage. 2012 Mar;60(1):582-91. Epub 2011 Dec 22.

[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 Mar 15. [Epub ahead of print]

Functional Imaging / BOLD

[A comparison of physiologic modulators of fMRI signals.](#)

Liu P, Hebrank AC, Rodrigue KM, Kennedy KM, Park DC, Lu H.
Hum Brain Mapp. 2012 Mar 28. doi: 10.1002/hbm.22053. [Epub ahead of print]

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

Kessler MS, Debilly S, Schöppenthau S, Bielser T, Bruns A, Künnecke B, Kienlin M, Wettstein JG, Moreau JL, Risterucci C.
Eur Neuropsychopharmacol. 2012 Mar;22(3):222-30.

Physiological Parameters beside CBF

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

Chen Y, Wang DJ, Detre JA.

MAGMA. 2012 Apr;25(2):135-44. Epub 2011 Aug 24.

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

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

Magn Reson Med. 2012 Mar;67(3):669-78. doi: 10.1002/mrm.23050. Epub 2011 Jun 28.

Technical Improvement/ Parameter Optimisation/ Theoretical Papers

[Blind detection of vascular sources and territories using random vessel encoded arterial spin labeling.](#)

Wong EC, Guo J.

MAGMA. 2012 Apr;25(2):95-101. Epub 2012 Jan 10.

[Cardiac arterial spin labeling using segmented ECG-gated Look-Locker FAIR: Variability and repeatability in preclinical studies.](#)

Campbell-Washburn AE, Price AN, Wells JA, Thomas DL, Ordidge RJ, Lythgoe MF.

Magn Reson Med. 2012 Mar 12. doi: 10.1002/mrm.24243. [Epub ahead of print]

[Magnetisation transfer effects of Q2TIPS pulses in ASL.](#)

De Vita E, Günther M, Golay X, Thomas DL.

MAGMA. 2012 Apr;25(2):113-26. Epub 2011 Dec 28.

[MR perfusion imaging by alternate slab width inversion recovery arterial spin labeling \(AIRASL\): a technique with higher signal-to-noise ratio at 3.0 T.](#)

Fujiwara Y, Kimura H, Miyati T, Kabasawa H, Matsuda T, Ishimori Y, Yamaguchi I, Adachi T.

MAGMA. 2012 Apr;25(2):103-11. Epub 2012 Jan 13.

[Optimization of background suppression for arterial spin labeling perfusion imaging.](#)

Maleki N, Dai W, Alsop DC.

MAGMA. 2012 Apr;25(2):127-33. Epub 2011 Oct 19.

[Optimization of flow-sensitive alternating inversion recovery \(FAIR\) for perfusion functional MRI of rodent brain.](#)

Nasrallah FA, Lee EL, Chuang KH.

NMR Biomed. 2012 Mar 26. doi: 10.1002/nbm.2790. [Epub ahead of print]

[Quantitative Assessment of External Carotid Artery Territory Supply with Modified Vessel-Encoded Arterial Spin-Labeling.](#)

Dang Y, Wu B, Sun Y, Mo D, Wang X, Zhang J, Fang J.

AJNR Am J Neuroradiol. 2012 Mar 29. [Epub ahead of print]

Comment

[Arterial spin labeling: its time is now.](#)

Alsop DC.

MAGMA. 2012 Mar 17. [Epub ahead of print] No abstract available.

[Re: Arterial Spin Labeling MR Imaging for Characterisation of Renal Masses in Patients With Impaired Renal Function: Initial Experience.](#)

Taneja SS.

J Urol. 2012 Apr;187(4):1221. Epub 2012 Feb 14. No abstract available.

[Better late than never: the long journey for noncontrast arterial spin labeling perfusion imaging in acute stroke.](#)

Zaharchuk G.

Stroke. 2012 Apr;43(4):931-2. Epub 2012 Feb 9. 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