

Dear Colleagues,

Here is the ASL Newsletter No. 26.

Kind Regards,
Ina

Recent publications January 2013, (e-publications might have been earlier):

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Animal studies

[Cine-ASL: A steady-pulsed arterial spin labeling method for myocardial perfusion mapping in mice. Part I. Experimental study.](#)

Troalen T, Capron T, Cozzone PJ, Bernard M, Kober F.

Magn Reson Med. 2013 Jan 2. doi: 10.1002/mrm.24565. [Epub ahead of print]

[MRI assessment of cerebral blood flow after experimental traumatic brain injury combined with hemorrhagic shock in mice.](#)

Foley LM, Iqbal O'Meara AM, Wisniewski SR, Kevin Hitchens T, Melick JA, Ho C, Jenkins LW, Kochanek PM.

J Cereb Blood Flow Metab. 2013 Jan;33(1):129-36. doi: 10.1038/jcbfm.2012.145. Epub 2012 Oct 17.

[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. 2013 Jan;69(1):238-47. doi: 10.1002/mrm.24243. Epub 2012 Mar 12.

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

Muir ER, De La Garza B, Duong TQ.

Magn Reson Med. 2013 Jan;69(1):221-8. doi: 10.1002/mrm.24232. Epub 2012 Mar 5.

Pharmacological / Drug studies

[Effects of Subanesthetic Dose of Nitrous Oxide on Cerebral Blood Flow and Metabolism: A Multimodal Magnetic Resonance Imaging Study in Healthy Volunteers.](#)

Dashdorj N, Corrie K, Napolitano A, Petersen E, Mahajan RP, Auer DP.

Anesthesiology. 2013 Jan 15. [Epub ahead of print]

[Mapping the hemodynamic response in human subjects to a dopaminergic challenge with dextroamphetamine using ASL-based pharmacological MRI.](#)

Schouw ML, Kaag AM, Caan MW, Heijtel DF, Majoie CB, Nederveen AJ, Booij J, Reneman L.

Neuroimage. 2013 Jan 5. doi:pii: S1053-8119(12)01242-6.

10.1016/j.neuroimage.2012.12.056. [Epub ahead of print]

[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. 2013 Feb;34(2):272-82. doi: 10.1002/hbm.21436. Epub 2012 Mar 25.

[Cortical responses to amphetamine exposure studied by pCASL MRI and pharmacokinetic/pharmacodynamic dose modeling.](#)

Nordin LE, Li TQ, Brogren J, Johansson P, Sjögren N, Hannesdottir K, Björk C, Segerdahl M, Wang DJ, Julin P.
Neuroimage. 2013 Mar;68:75-82. doi: 10.1016/j.neuroimage.2012.11.035. Epub 2012 Dec 12.

Perfusion studies other than on the brain

[Spatial-temporal dynamics of pulmonary blood flow in the healthy human lung in response to altered FIO₂.](#)

Asadi AK, Cronin MV, Sá RC, Theilmann RJ, Holverda S, Hopkins SR, Buxton RB, Prisk GK.
J Appl Physiol. 2013 Jan;114(1):107-18. doi: 10.1152/jappphysiol.00433.2012. Epub 2012 Oct 25.

[Feasibility of measuring prostate perfusion with arterial spin labeling.](#)

Li X, Metzger GJ.
NMR Biomed. 2013 Jan;26(1):51-7. doi: 10.1002/nbm.2818. Epub 2012 Jun 7.

[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.
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Magn Reson Med. 2013 Jan;69(1):221-8. doi: 10.1002/mrm.24232. Epub 2012 Mar 5.

[Evaluation of renal blood flow using multi-phase echo-planar magnetic resonance imaging and signal targeting with alternating radiofrequency \(EPISTAR\) in 3-T magnetic resonance imaging.](#)

Sugimori H, Nakanishi M, Fujima N, Ishizaka K, Mito S, Hamaguchi H, Sakata M.
Radiol Phys Technol. 2013 Jan;6(1):86-91. doi: 10.1007/s12194-012-0173-2. Epub 2012 Aug 7.

Cerebral blood flow studies

Studies on special diseases

[Pain response measured with arterial spin labeling.](#)

Maleki N, Brawn J, Barmettler G, Borsook D, Becerra L.
NMR Biomed. 2013 Jan 15. doi: 10.1002/nbm.2911. [Epub ahead of print]

[Functional imaging for interpretation of pain pathways: current clinical application/relevance and future initiatives.](#)

Clarke CF, Lawrence KS.
Curr Pain Headache Rep. 2013 Feb;17(2):311. doi: 10.1007/s11916-012-0311-x.

[Interaction of Age and APOE Genotype on Cerebral Blood Flow at Rest.](#)

Wierenga CE, Clark LR, Dev SI, Shin DD, Jurick SM, Rissman RA, Liu TT, Bondi MW.
J Alzheimers Dis. 2013 Jan 8. [Epub ahead of print]

[Early MRI changes in glioblastoma in the period between surgery and adjuvant therapy.](#)

Farace P, Amelio D, Ricciardi GK, Zoccatelli G, Magon S, Pizzini F, Alessandrini F, Sbarbati A, Amichetti M, Beltramello A.
J Neurooncol. 2013 Jan;111(2):177-85. doi: 10.1007/s11060-012-0997-y. Epub 2012 Dec 22.

[Quantitative cerebral blood flow mapping and functional connectivity of postherpetic neuralgia pain: A perfusion fMRI study.](#)

Liu J, Hao Y, Du M, Wang X, Zhang J, Manor B, Jiang X, Fang W, Wang D.
Pain. 2013 Jan;154(1):110-8. doi: 10.1016/j.pain.2012.09.016. Epub 2012 Oct 5.

[Default mode network connectivity encodes clinical pain: An arterial spin labeling study.](#)

Loggia ML, Kim J, Gollub RL, Vangel MG, Kirsch I, Kong J, Wasan AD, Napadow V.
Pain. 2013 Jan;154(1):24-33. doi: 10.1016/j.pain.2012.07.029. Epub 2012 Oct 27.

[MRI assessment of cerebral blood flow after experimental traumatic brain injury combined with hemorrhagic shock in mice.](#)

Foley LM, Iqbal O'Meara AM, Wisniewski SR, Kevin Hitchens T, Melick JA, Ho C, Jenkins LW, Kochanek PM.
J Cereb Blood Flow Metab. 2013 Jan;33(1):129-36. doi: 10.1038/jcbfm.2012.145. Epub 2012 Oct 17.

[Sustained high-altitude hypoxia increases cerebral oxygen metabolism.](#)

Smith ZM, Krizay E, Guo J, Shin DD, Scadeng M, Dubowitz DJ.
J Appl Physiol. 2013 Jan;114(1):11-8. doi: 10.1152/jappphysiol.00703.2012. Epub 2012 Sep 27.

Comparison of ASL Techniques or ASL compared with other Imaging methods

[Cine-ASL: A steady-pulsed arterial spin labeling method for myocardial perfusion mapping in mice. Part I. Experimental study.](#)

Troalen T, Capron T, Cozzone PJ, Bernard M, Kober F.
Magn Reson Med. 2013 Jan 2. doi: 10.1002/mrm.24565. [Epub ahead of print]

[Combined arterial spin labeling and diffusion-weighted imaging for noninvasive estimation of capillary volume fraction and permeability-surface product in the human brain.](#)

Hales PW, Clark CA.
J Cereb Blood Flow Metab. 2013 Jan;33(1):67-75. doi: 10.1038/jcbfm.2012.125. Epub 2012 Sep 19.

[Localization of the hand motor area by arterial spin labeling and blood oxygen level-dependent functional magnetic resonance imaging.](#)

Pimentel MA, Vilela P, Sousa I, Figueiredo P.
Hum Brain Mapp. 2013 Jan;34(1):96-108. doi: 10.1002/hbm.21418. Epub 2011 Nov 28.

Functional Imaging / BOLD

[Coupling of functional connectivity and regional cerebral blood flow reveals a physiological basis for network hubs of the human brain.](#)

Liang X, Zou Q, He Y, Yang Y.

Proc Natl Acad Sci U S A. 2013 Jan 14. [Epub ahead of print]

[Pain response measured with arterial spin labeling.](#)

Maleki N, Brawn J, Barmettler G, Borsook D, Becerra L.

NMR Biomed. 2013 Jan 15. doi: 10.1002/nbm.2911. [Epub ahead of print]

[Functional imaging for interpretation of pain pathways: current clinical application/relevance and future initiatives.](#)

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[Noninvasive functional imaging of cerebral blood volume with vascular-space-occupancy \(VASO\) MRI.](#)

Lu H, Hua J, van Zijl PC.

NMR Biomed. 2013 Jan 28. doi: 10.1002/nbm.2905. [Epub ahead of print]

[Coupling of cerebral blood flow and oxygen metabolism is conserved for chromatic and luminance stimuli in human visual cortex.](#)

Leontiev O, Buracas GT, Liang C, Ances BM, Perthen JE, Shmuel A, Buxton RB.

Neuroimage. 2013 Mar;68:221-8. doi: 10.1016/j.neuroimage.2012.11.050. Epub 2012 Dec 11.

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Physiological Parameters besides CBF

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J Cereb Blood Flow Metab. 2013 Jan;33(1):67-75. doi: 10.1038/jcbfm.2012.125. Epub 2012 Sep 19.

[T2-based arterial spin labeling measurements of blood to tissue water transfer in human brain.](#)

Gregori J, Schuff N, Kern R, Günther M.

J Magn Reson Imaging. 2013 Feb;37(2):332-42. doi: 10.1002/jmri.23822. Epub 2012 Sep 27.

Technical Improvement/ Parameter Optimisation/ Theoretical Papers

[Optimal sampling schedule for chemical exchange saturation transfer.](#)

Tee YK, Khrapitchev AA, Sibson NR, Payne SJ, Chappell MA.

Magn Reson Med. 2013 Jan 11. doi: 10.1002/mrm.24567. [Epub ahead of print]

Review Paper/ Historical Review

[Noninvasive functional imaging of cerebral blood volume with vascular-space-occupancy \(VASO\) MRI.](#)

Lu H, Hua J, van Zijl PC.

NMR Biomed. 2013 Jan 28. doi: 10.1002/nbm.2905. [Epub ahead of print]

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