

Dear Colleagues,

Here is the ASL Newsletter No. 29.

Kind regards,
Ina

Recent publications

April 2013,

(e-publications might have been earlier):

Content:

Animal studies	2
Pharmacological / Drug studies	2
Perfusion studies other than on the brain	3
Cerebral blood flow studies	3
CBF regional comparison	3
Studies on special diseases	3
Comparison of ASL Techniques or ASL compared with other Imaging methods.....	5
Functional Imaging / BOLD	6
Physiological Parameters besides CBF	6
Technical Improvement/ Parameter Optimisation/ Theoretical Papers	6
Review Paper/ Historical Review	7
Job offerings	7
Feature articles.....	7

Animal studies

[Quantitative mouse renal perfusion using arterial spin labeling.](#)

Rajendran R, Lew SK, Yong CX, Tan J, Wang DJ, Chuang KH.
NMR Biomed. 2013 Apr 16. doi: 10.1002/nbm.2939. [Epub ahead of print]

[High-resolution mouse kidney perfusion imaging by pseudo-continuous arterial spin labeling at 11.75T.](#)

Duhamel G, Prevost V, Girard OM, Callot V, Cozzone PJ.
Magn Reson Med. 2013 Apr 8. doi: 10.1002/mrm.24740. [Epub ahead of print]

[Blood oxygenation level dependent, blood volume, and blood flow responses to carbogen and hypoxic hypoxia in 9L rat gliomas as measured by MRI.](#)

Jerome NP, Hekmatyar SK, Kauppinen RA.
J Magn Reson Imaging. 2013 Apr 1. doi: 10.1002/jmri.24097. [Epub ahead of print]

[Cortical atrophy and hypoperfusion in a transgenic mouse model of Alzheimer's disease.](#)

Hébert F, Grand'maison M, Ho MK, Lerch JP, Hamel E, Bedell BJ.
Neurobiol Aging. 2013 Jun;34(6):1644-52. doi: 10.1016/j.neurobiolaging.2012.11.022. Epub 2012 Dec 27.

[Monitoring Functional Impairment and Recovery after Traumatic Brain Injury in Rats by fMRI.](#)

Niskanen JP, Airaksinen AM, Sierra A, Huttunen JK, Nissinen J, Karjalainen PA, Pitkänen A, Gröhn OH.
J Neurotrauma. 2013 Apr 3. [Epub ahead of print]

Pharmacological / Drug studies

[Comparison of cerebral vascular reactivity measures obtained using breath-holding and CO₂ inhalation.](#)

Tancredi FB, Hoge RD.
J Cereb Blood Flow Metab. 2013 Apr 10. doi: 10.1038/jcbfm.2013.48. [Epub ahead of print]

[Cerebral hypoperfusion in multiple sclerosis is reversible and mediated by endothelin-1.](#)

D'haeseleer M, Beelen R, Fierens Y, Cambron M, Vanbinst AM, Verborgh C, Demey J, De Keyser J.
Proc Natl Acad Sci U S A. 2013 Apr 2;110(14):5654-8. doi: 10.1073/pnas.1222560110. Epub 2013 Mar 18.

[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, Booi J, Reneman L.
Neuroimage. 2013 May 15;72:1-9. doi: 10.1016/j.neuroimage.2012.12.056. Epub 2013 Jan 5.

Perfusion studies other than on the brain

[The gravitational distribution of ventilation-perfusion ratio is more uniform in prone than supine posture in the normal human lung.](#)

Henderson AC, Sá RC, Theilmann RJ, Buxton RB, Prisk GK, Hopkins SR.
J Appl Physiol. 2013 Apr 25. [Epub ahead of print]

[Quantitative mouse renal perfusion using arterial spin labeling.](#)

Rajendran R, Lew SK, Yong CX, Tan J, Wang DJ, Chuang KH.
NMR Biomed. 2013 Apr 16. doi: 10.1002/nbm.2939. [Epub ahead of print]

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[Transjugular intrahepatic portosystemic shunt induced short- and long-term cerebral blood flow variations in cirrhotic patients: an arterial spin labeling MRI study.](#)

Zheng G, Zhang LJ, Cao Y, Pan Z, Qi RF, Ni L, Shi D, Fan X, Lu GM.
Metab Brain Dis. 2013 Apr 7. [Epub ahead of print]

[Vascular and Renal Hemodynamic Changes after Renal Denervation.](#)

Ott C, Janka R, Schmid A, Titze S, Ditting T, Sobotka PA, Veelken R, Uder M, Schmieder RE.
Clin J Am Soc Nephrol. 2013 Apr 4. [Epub ahead of print]

Cerebral blood flow studies

CBF regional comparison

[Anteroposterior perfusion heterogeneity in human hippocampus measured by arterial spin labeling MRI.](#)

Li X, Sarkar SN, Purdy DE, Spence JS, Haley RW, Briggs RW.
NMR Biomed. 2013 Jun;26(6):613-21. doi: 10.1002/nbm.2898. Epub 2013 Feb 19.

Studies on special diseases

[Chronic pain: lost inhibition?](#)

Henderson LA, Peck CC, Petersen ET, Rae CD, Youssef AM, Reeves JM, Wilcox SL, Akhter R, Murray GM, Gustin SM.
J Neurosci. 2013 Apr 24;33(17):7574-82. doi: 10.1523/JNEUROSCI.0174-13.2013.

[Neural Correlates of Mindfulness Meditation-Related Anxiety Relief.](#)

Zeidan F, Martucci KT, Kraft RA, McHaffie JG, Coghill RC.
Soc Cogn Affect Neurosci. 2013 Apr 24. [Epub ahead of print]

[Pseudoprogession in patients with glioblastoma: added value of arterial spin labeling to dynamic susceptibility contrast perfusion MR imaging.](#)

Choi YJ, Kim HS, Jahng GH, Kim SJ, Suh DC.
Acta Radiol. 2013 Apr 16. [Epub ahead of print]

[A Selective Insular Perfusion Deficit Contributes to Compromised Salience Network Connectivity in Recovering Alcoholic Men.](#)

Sullivan EV, Müller-Oehring E, Pitel AL, Chanraud S, Shankaranarayanan A, Alsop DC, Rohlfing T, Pfefferbaum A.
Biol Psychiatry. 2013 Apr 12. doi:pii: S0006-3223(13)00223-0.
10.1016/j.biopsych.2013.02.026. [Epub ahead of print]

[Abnormalities of cerebral blood flow in multiple sclerosis: A pseudocontinuous arterial spin labeling MRI study.](#)

Ota M, Sato N, Nakata Y, Ito K, Kamiya K, Maikusa N, Ogawa M, Okamoto T, Obu S, Noda T, Araki M, Yamamura T, Kunugi H.
Magn Reson Imaging. 2013 Apr 10. doi:pii: S0730-725X(13)00102-1.
10.1016/j.mri.2013.03.016. [Epub ahead of print]

[Transjugular intrahepatic portosystemic shunt induced short- and long-term cerebral blood flow variations in cirrhotic patients: an arterial spin labeling MRI study.](#)

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[Performance on Paced Auditory Serial Addition Test and cerebral blood flow in multiple sclerosis.](#)

D'haeseleer M, Steen C, Hoogduin JM, van Osch MJ, Fierens Y, Cambron M, Koch MW, De Keyser J.
Acta Neurol Scand. 2013 Apr 1. doi: 10.1111/ane.12129. [Epub ahead of print]

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Epub 2013 Mar 18.

[Magnetic resonance imaging: A biomarker for cognitive impairment in Parkinson's disease?](#)

Duncan GW, Firbank MJ, O'Brien JT, Burn DJ.
Mov Disord. 2013 Apr;28(4):425-38. doi: 10.1002/mds.25352. Epub 2013 Feb 28.

[Changes in cerebral blood flow and vasoreactivity to CO₂ measured by arterial spin labeling after 6days at 4350m.](#)

Villien M, Bouzat P, Rupp T, Robach P, Lamalle L, Troprès I, Estève F, Krainik A, Lévy P, Warnking JM, Verges S.

Neuroimage. 2013 May 15;72:272-9. doi: 10.1016/j.neuroimage.2013.01.066. Epub 2013

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

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

NMR Biomed. 2013 Jun;26(6):664-73. doi: 10.1002/nbm.2911. Epub 2013 Jan 15.

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[Cerebral Blood Flow Measured with 3D Pseudocontinuous Arterial Spin-labeling MR Imaging in Alzheimer Disease and Mild Cognitive Impairment: A Marker for Disease Severity.](#)

Binnewijzend MA, Kuijter JP, Benedictus MR, van der Flier WM, Wink AM, Wattjes MP, van Berckel BN, Scheltens P, Barkhof F.

Radiology. 2013 Apr;267(1):221-30. doi: 10.1148/radiol.12120928. Epub 2012 Dec 13.

[Reliability analysis of the resting state can sensitively and specifically identify the presence of Parkinson disease.](#)

Skidmore FM, Yang M, Baxter L, von Deneen KM, Collingwood J, He G, White K, Korenkevych D, Savenkov A, Heilman KM, Gold M, Liu Y.

Neuroimage. 2013 Jul 15;75:249-61. doi: 10.1016/j.neuroimage.2011.06.056. Epub 2011 Sep 6.

Comparison of ASL Techniques or ASL compared with other Imaging methods

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Physiological Parameters besides CBF

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

Dai W, Shankaranarayanan A, Alsop DC.

Magn Reson Med. 2013 Apr;69(4):1014-22. doi: 10.1002/mrm.24335. Epub 2012 May 22.

Technical Improvement/ Parameter Optimisation/ Theoretical Papers

[Feasibility of arterial spin labeling on a 1T open MRI scanner.](#)

Heijtel DF, van Osch MJ, Caan MW, Majoie CB, Vanbavel E, Nederveen AJ.

J Magn Reson Imaging. 2013 Apr;37(4):958-64. doi: 10.1002/jmri.23880. Epub 2012 Oct 23.

[Comparing model-based and model-free analysis methods for QUASAR arterial spin labeling perfusion quantification.](#)

Chappell MA, Woolrich MW, Petersen ET, Golay X, Payne SJ.

Magn Reson Med. 2013 May;69(5):1466-75. doi: 10.1002/mrm.24372. Epub 2012 Jun 18.

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

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Job offerings

If you have any vacancies please send them to jobs@asl-network.org

Feature articles

If you would like to write a comment on an interesting article mail it to editor@asl-network.org