

Dear Colleagues,

Here is the ASL Newsletter No. 25.

With the beginning of the New Year, Ina will be responsible for upcoming newsletters.

I wish you all a good start in 2013.

Cheers,
Johanna

Recent publications December 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. 2013 Jan;69(1):221-8. doi: 10.1002/mrm.24232. Epub 2012 Mar 5.

[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.

[Cine-ASL: A steady-pulsed arterial spin labeling method for myocardial perfusion mapping in mice. Part II. Theoretical model and sensitivity optimization.](#)

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

Magn Reson Med. 2012 Dec 27. doi: 10.1002/mrm.24588. [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. 2012 Dec 27. doi:pii: S0197-4580(12)00610-0.

10.1016/j.neurobiolaging.2012.11.022. [Epub ahead of print]

[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, Pitkanen A, Gröhn O.

J Neurotrauma. 2012 Dec 23. [Epub ahead of print]

Pharmacological / Drug studies

[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. 2012 Dec 11. doi:pii: S1053-8119(12)01147-0.

10.1016/j.neuroimage.2012.11.035. [Epub ahead of print]

[Spatial heterogeneity of the relation between resting-state connectivity and blood flow: An important consideration for pharmacological studies.](#)

Khalili-Mahani N, Osch MJ, Rooij MD, Beckmann CF, Buchem MA, Dahan A, Gerven JM, Rombouts SA.

Hum Brain Mapp. 2012 Dec 26. doi: 10.1002/hbm.22224. [Epub ahead of print]

Perfusion studies other than on the brain

[Arterial Spin-labeling MR Imaging of Renal Masses: Correlation with Histopathologic Findings.](#)

Lanzman RS, Robson PM, Sun MR, Patel AD, Mentore K, Wagner AA, Genega EM, Rofsky NM, Alsop DC, Pedrosa I.

Radiology. 2012 Dec;265(3):799-808. doi: 10.1148/radiol.12112260. Epub 2012 Oct 9.

[Arterial Spin Labeling MR Imaging Reproducibly Measures Peak-Exercise Calf Muscle Perfusion: A Study in Patients With Peripheral Arterial Disease and Healthy Volunteers.](#)

Pollak AW, Meyer CH, Epstein FH, Jiji RS, Hunter JR, Dimaria JM, Christopher JM, Kramer CM.

JACC Cardiovasc Imaging. 2012 Dec;5(12):1224-30. doi: 10.1016/j.jcmg.2012.03.022.

[Arterial spin labelling perfusion MRI of breast cancer using FAIR TrueFISP: Initial results.](#)

Buchbender S, Obenauer S, Mohrmann S, Martirosian P, Buchbender C, Miese FR, Wittsack HJ, Miekley M, Antoch G, Lanzman RS.

Clin Radiol. 2012 Dec 11. doi:pii: S0009-9260(12)00530-2. 10.1016/j.crad.2012.10.011.

[Epub ahead of print]

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

Muir ER, De La Garza B, Duong TQ.

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

Magn Reson Med. 2012 Dec 27. doi: 10.1002/mrm.24588. [Epub ahead of print]

[Imaging of intrarenal haemodynamics and oxygen metabolism.](#)

Liss P, Cox EF, Eckerbom P, T Francis S.

Clin Exp Pharmacol Physiol. 2012 Dec 18. doi: 10.1111/1440-1681.12042. [Epub ahead of print]

[Thyroid Perfusion Imaging as a Diagnostic Tool in Graves' Disease - Arterial Spin Labeling Magnetic Resonance Imaging vs. Colour-Coded Doppler Ultrasound.](#)

Müssig K, Schraml C, Rietig R, Martirosian P, Schwenzer NF, Claussen CD, Häring HU, Schick F, Balletshofer B.

Rofo. 2012 Dec;184(12):1138-1143. Epub 2012 Oct 11.

Cerebral blood flow studies

[T2'- and PASL-based perfusion mapping at 3 Tesla: influence of oxygen-ventilation on cerebral autoregulation.](#)

Wagner M, Magerkurth J, Volz S, Jurcoane A, Singer OC, Neumann-Haefelin T, Zanella FE, Deichmann R, Hattingen E.

J Magn Reson Imaging. 2012 Dec;36(6):1347-52. doi: 10.1002/jmri.23777. Epub 2012 Aug 21.

Studies on special diseases

[A comparative study between arterial spin labeling and CT perfusion methods on hepatic portal venous flow.](#)

Katada Y, Shukuya T, Kawashima M, Nozaki M, Imai H, Natori T, Tamano M.

Jpn J Radiol. 2012 Dec;30(10):863-9. doi: 10.1007/s11604-012-0127-y. Epub 2012 Sep 19.

[Alterations in resting-state regional cerebral blood flow demonstrate ongoing pain in osteoarthritis: An arterial spin-labeled magnetic resonance imaging study.](#)

Howard MA, Sanders D, Krause K, O'Muircheartaigh J, Fotopoulou A, Zelaya F, Thacker M, Massat N, Huggins JP, Vennart W, Choy E, Daniels M, Williams SC.

Arthritis Rheum. 2012 Dec;64(12):3936-46. doi: 10.1002/art.37685.

[Cerebral Blood Flow is Diminished in Asymptomatic Middle-Aged Adults with Maternal History of Alzheimer's Disease.](#)

Okonkwo OC, Xu G, Oh JM, Dowling NM, Carlsson CM, Gallagher CL, Birdsill AC, Palotti M, Wharton W, Hermann BP, Larue A, Bendlin BB, Rowley HA, Asthana S, Sager MA, Johnson SC.

Cereb Cortex. 2012 Dec 12. [Epub ahead of print]

[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, Kuijjer JP, Benedictus MR, van der Flier WM, Wink AM, Wattjes MP, van Berckel BN, Scheltens P, Barkhof F.

Radiology. 2012 Dec 13. [Epub ahead of print]

[Changes in cerebral blood flow after transjugular intrahepatic portosystemic shunt can help predict the development of hepatic encephalopathy: An arterial spin labeling MR study.](#)

Zheng G, Zhang LJ, Wang Z, Qi RF, Shi D, Wang L, Fan X, Lu GM.

Eur J Radiol. 2012 Dec;81(12):3851-6. doi: 10.1016/j.ejrad.2012.07.003. Epub 2012 Jul 23.

[Correlation of Biexponential Diffusion Parameters With Arterial Spin-Labeling Perfusion MRI: Results in Transplanted Kidneys.](#)

Heusch P, Wittsack HJ, Heusner T, Buchbender C, Quang MN, Martirosian P, Bilk P, Kröpil P, Blondin D, Antoch G, Lanzman RS.

Invest Radiol. 2012 Dec 17. [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. 2012 Dec 22. [Epub ahead of print]

[Hemodynamic effects of cholinesterase inhibition in mild Alzheimer's disease.](#)

Chaudhary S, Scouten A, Schwindt G, Janik R, Lee W, Sled JG, Black SE, Stefanovic B.

J Magn Reson Imaging. 2012 Dec 13. doi: 10.1002/jmri.23967. [Epub ahead of print]

[MR evaluation of cerebral oxygen metabolism and blood flow in stroke-like episodes of MELAS.](#)

Wang Z, Xiao J, Xie S, Zhao D, Liu X, Zhang J, Yuan Y, Huang Y.

J Neurol Sci. 2012 Dec 15;323(1-2):173-7. doi: 10.1016/j.jns.2012.09.011. Epub 2012 Oct 11.

[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 Dec;262(8):677-85. doi: 10.1007/s00406-012-0303-1. Epub 2012 Mar 11.

Comparison of ASL Techniques or ASL compared with other imaging methods

[A comparative study between arterial spin labeling and CT perfusion methods on hepatic portal venous flow.](#)

Katada Y, Shukuya T, Kawashima M, Nozaki M, Imai H, Natori T, Tamano M.

Jpn J Radiol. 2012 Dec;30(10):863-9. doi: 10.1007/s11604-012-0127-y. Epub 2012 Sep 19.

[Mapping human brain fatty acid amide hydrolase activity with PET.](#)

Rusjan PM, Wilson AA, Mizrahi R, Boileau I, Chavez SE, Lobaugh NJ, Kish SJ, Houle S, Tong J.

J Cereb Blood Flow Metab. 2012 Dec 5. doi: 10.1038/jcbfm.2012.180. [Epub ahead of print]

[Perfusion quantification by model-free arterial spin labeling using nonlinear stochastic regularization deconvolution.](#)

Ahlgren A, Wirestam R, Petersen ET, Ståhlberg F, Knutsson L.

Magn Reson Med. 2012 Dec 27. doi: 10.1002/mrm.24587. [Epub ahead of print]

[Thyroid Perfusion Imaging as a Diagnostic Tool in Graves' Disease - Arterial Spin Labeling Magnetic Resonance Imaging vs. Colour-Coded Doppler Ultrasound.](#)

Müssig K, Schraml C, Rietig R, Martirosian P, Schwenzer NF, Claussen CD, Häring HU, Schick F, Balletshofer B.

Rofo. 2012 Dec;184(12):1138-1143. Epub 2012 Oct 11.

Functional Imaging / BOLD

[Age dependence of hemodynamic response characteristics in human functional magnetic resonance imaging.](#)

Gauthier CJ, Madjar C, Desjardins-Crépeau L, Bellec P, Bherer L, Hoge RD.

Neurobiol Aging. 2012 Dec 5. doi:pii: S0197-4580(12)00568-4.

10.1016/j.neurobiolaging.2012.11.002. [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. 2012 Dec 11. doi:pii: S1053-8119(12)01162-7.

10.1016/j.neuroimage.2012.11.050. [Epub ahead of print]

[Functional arterial spin labeling: Optimal sequence duration for motor activation mapping in clinical practice.](#)

Raoult H, Ferré JC, Petr J, Bannier E, Stamm A, Barillot C, Gauvrit JY.

J Magn Reson Imaging. 2012 Dec;36(6):1435-44. doi: 10.1002/jmri.23782. Epub 2012

Aug 24.

[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.

[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, Pitkanen A, Gröhn O.

J Neurotrauma. 2012 Dec 23. [Epub ahead of print]

[Origins of intersubject variability of blood oxygenation level dependent and arterial spin labeling fMRI: implications for quantification of brain activity.](#)

Gaxiola-Valdez I, Goodyear BG.

Magn Reson Imaging. 2012 Dec;30(10):1394-400. doi: 10.1016/j.mri.2012.05.002. Epub

2012 Jul 15.

Physiological Parameters beside CBF

[Age-Related Changes of Cerebral Autoregulation: New Insights with Quantitative T2'-Mapping and Pulsed Arterial Spin-Labeling MR Imaging.](#)

Wagner M, Jurcoane A, Volz S, Magerkurth J, Zanella FE, Neumann-Haefelin T, Deichmann R, Singer OC, Hattingen E.
AJNR Am J Neuroradiol. 2012 Dec;33(11):2081-7. doi: 10.3174/ajnr.A3138. Epub 2012 Jun 14.

Technical Improvement/ Parameter Optimisation/ Theoretical Papers

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Capron T, Troalen T, Cozzone PJ, Bernard M, Kober F.
Magn Reson Med. 2012 Dec 27. doi: 10.1002/mrm.24588. [Epub ahead of print]

[Optimizing pTILT perfusion imaging in the presence of off-resonance frequency.](#)

Ouyang C, Sutton BP.
J Magn Reson Imaging. 2012 Dec 13. doi: 10.1002/jmri.23968. [Epub ahead of print]

[Partial volume correction in arterial spin labeling using a Look-Locker sequence.](#)

Petr J, Schramm G, Hofheinz F, Langner J, van den Hoff J.
Magn Reson Med. 2012 Dec 27. doi: 10.1002/mrm.24601. [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