

Dear Colleagues,

Here is the ASL Newsletter No. 44.

Kind regards,  
Ina

## Recent publications July 2014, (e-publications might have been earlier):

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## Animal Studies

### [Detection of ischemic penumbra using combined perfusion and T2\\* oxygen challenge imaging.](#)

Robertson CA, McCabe C, Lopez-Gonzalez MR, Deuchar GA, Dani K, Holmes WM, Muir KW, Santosh C, Macrae IM.  
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Li CX, Patel S, Wang DJ, Zhang X.  
Magn Reson Imaging. 2014 Sep;32(7):956-60. doi: 10.1016/j.mri.2014.04.019. Epub 2014 Apr 26.

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J Cereb Blood Flow Metab. 2014 Jul;34(7):1243-52. doi: 10.1038/jcbfm.2014.81. Epub 2014 Apr 30.

## Perfusion Studies Other than on the Brain

### [Advances in functional and structural imaging of the human lung using proton MRI.](#)

Miller GW, Mugler JP 3rd, Sá RC, Altes TA, Prisk GK, Hopkins SR.  
NMR Biomed. 2014 Jul 2. doi: 10.1002/nbm.3156. [Epub ahead of print]

[Separate pulmonary artery and vein magnetic resonance angiography by use of an arterial spin labeling method.](#)

Okuaki T, Ishimoto T, Miyati T, Kobayashi S, Ishihara M, Kawakami M, Ogino T, Van Cauteren M.

Radiol Phys Technol. 2014 Jul;7(2):352-7. doi: 10.1007/s12194-014-0272-3. Epub 2014 Jun 7.

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[Functional evaluation of transplanted kidneys using arterial spin labeling MRI.](#)

Heusch P, Wittsack HJ, Blondin D, Ljimini A, Nguyen-Quang M, Martirosian P, Zenginli H, Bilk P, Kröpil P, Heusner TA, Antoch G, Lanzman RS.

J Magn Reson Imaging. 2014 Jul;40(1):84-9. doi: 10.1002/jmri.24336. Epub 2013 Oct 7.

## Cerebral Blood Flow Studies

### CBF Correlation with Age

[The Synergistic Effects of Anxiety and Cerebral Hypoperfusion on Cognitive Dysfunction in Older Adults With Cardiovascular Disease.](#)

Alosco ML, Gunstad J, Beard C, Xu X, Clark US, Labbe DR, Jerskey BA, Ladino M, Cote DM, Walsh EG, Poppas A, Cohen RA, Sweet LH.

J Geriatr Psychiatry Neurol. 2014 Jul 9. pii: 0891988714541871. [Epub ahead of print]

[Accelerated white matter aging in schizophrenia: role of white matter blood perfusion.](#)

Wright SN, Kochunov P, Chiappelli J, McMahon RP, Muellerklein F, Wijtenburg SA, White MG, Rowland LM, Hong LE.

Neurobiol Aging. 2014 Oct;35(10):2411-8. doi: 10.1016/j.neurobiolaging.2014.02.016. Epub 2014 Feb 28.

[Non-invasive MRI measurements of venous oxygenation, oxygen extraction fraction and oxygen consumption in neonates.](#)

De Vis JB, Petersen ET, Alderliesten T, Groenendaal F, de Vries LS, van Bel F, Benders MJ, Hendrikse J.

Neuroimage. 2014 Jul 15;95:185-92. doi: 10.1016/j.neuroimage.2014.03.060. Epub 2014 Mar 29.

[Developmental changes in resting and functional cerebral blood flow and their relationship to the BOLD response.](#)

Moses P, DiNino M, Hernandez L, Liu TT.

Hum Brain Mapp. 2014 Jul;35(7):3188-98. doi: 10.1002/hbm.22394. Epub 2013 Oct 18.

## CBF Regional Comparison/ Regional ASL

[Characteristic distributions of regional cerebral blood flow changes in major depressive disorder patients: a pseudo-continuous arterial spin labeling \(pCASL\) study.](#)

Ota M, Noda T, Sato N, Hattori K, Teraishi T, Hori H, Nagashima A, Shimoji K, Higuchi T, Kunugi H.

J Affect Disord. 2014 Aug;165:59-63. doi: 10.1016/j.jad.2014.04.032. Epub 2014 Apr 21.

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Hum Brain Mapp. 2014 Sep;35(9):4916-31. doi: 10.1002/hbm.22522. Epub 2014 Apr 3.

[Regional perfusion imaging using pTILT.](#)

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J Geriatr Psychiatry Neurol. 2014 Jul 9. pii: 0891988714541871. [Epub ahead of print]

[Diffusion tensor magnetic resonance imaging for predicting the consistency of intracranial meningiomas.](#)

Romani R, Tang WJ, Mao Y, Wang DJ, Tang HL, Zhu FP, Che XM, Gong Y, Zheng K, Zhong P, Li SQ, Bao WM, Benner C, Wu JS, Zhou LF.  
Acta Neurochir (Wien). 2014 Jul 8. [Epub ahead of print]

[Comparison of Multiple Parameters Obtained on 3T Pulsed Arterial Spin-Labeling, Diffusion Tensor Imaging, and MRS and the Ki-67 Labeling Index in Evaluating Glioma Grading.](#)

Fudaba H, Shimomura T, Abe T, Matsuta H, Momii Y, Sugita K, Ooba H, Kamida T, Hikawa T, Fujiki M.  
AJNR Am J Neuroradiol. 2014 Jul 3. [Epub ahead of print]

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[Transcranial electrical stimulation modifies the neuronal response to psychosocial stress exposure.](#)

Antal A, Fischer T, Saiote C, Miller R, Chaieb L, Wang DJ, Plessow F, Paulus W, Kirschbaum C.  
Hum Brain Mapp. 2014 Aug;35(8):3750-9. doi: 10.1002/hbm.22434. Epub 2013 Dec 31.

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## Functional Imaging / BOLD

[Perfusion MRI indexes variability in the functional brain effects of theta-burst transcranial magnetic stimulation.](#)

Gratton C, Lee TG, Nomura EM, D'Esposito M.  
PLoS One. 2014 Jul 3;9(7):e101430. doi: 10.1371/journal.pone.0101430. eCollection 2014.

[Transcranial electrical stimulation modifies the neuronal response to psychosocial stress exposure.](#)

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Hum Brain Mapp. 2014 Sep;35(9):4916-31. doi: 10.1002/hbm.22522. Epub 2014 Apr 3.

[Support vector machine learning-based cerebral blood flow quantification for arterial spin labeling MRI.](#)

Wang Z.

Hum Brain Mapp. 2014 Jul;35(7):2869-75. doi: 10.1002/hbm.22445. Epub 2014 Jan 17.

# Technical Improvement/ Parameter Optimisation/ Theoretical Papers

[Separate pulmonary artery and vein magnetic resonance angiography by use of an arterial spin labeling method.](#)

Okuaki T, Ishimoto T, Miyati T, Kobayashi S, Ishihara M, Kawakami M, Ogino T, Van Caueren M.

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## Review Paper/ Historical Review

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[Perfusion imaging.](#)

Günther M.

J Magn Reson Imaging. 2014 Aug;40(2):269-79. doi: 10.1002/jmri.24382. Epub 2013 Nov 25.

[An introduction to ASL labeling techniques.](#)

Wong EC.

J Magn Reson Imaging. 2014 Jul;40(1):1-10. doi: 10.1002/jmri.24565. Epub 2014 Jan 15.

## Job offerings

If you have any vacancies please send them to [jobs@asl-network.org](mailto: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](mailto:editor@asl-network.org)