

Dear Colleagues,

Here is the ASL Newsletter No. 42.

Kind regards,  
Ina

## Recent publications

May 2014,

(e-publications might have been earlier):

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## Animal Studies

[Sensitivity of arterial spin labeling perfusion MRI to pharmacologically induced perfusion changes in rat kidneys.](#)

Tan H, Thacker J, Franklin T, Prasad PV.

J Magn Reson Imaging. 2014 May 6. doi: 10.1002/jmri.24645. [Epub ahead of print]

[Impaired CBF regulation and high CBF threshold contribute to the increased sensitivity of spontaneously hypertensive rats to cerebral ischemia.](#)

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[Dichotomous effects of chronic intermittent hypoxia on focal cerebral ischemic injury.](#)

Jackman KA, Zhou P, Faraco G, Peixoto PM, Coleman C, Voss HU, Pickel V, Manfredi G, Iadecola C.

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[Effect of isoproterenol on myocardial perfusion, function, energy metabolism and nitric oxide pathway in the rat heart - a longitudinal MR study.](#)

Desrois M, Kober F, Lan C, Dalmaso C, Cole M, Clarke K, Cozzone PJ, Bernard M.

NMR Biomed. 2014 May;27(5):529-38. doi: 10.1002/nbm.3088. Epub 2014 Feb 20.

## Pharmacological / Drug Studies / Studies on the Effects of Therapies

[Nicotine and Non-Nicotine Smoking Factors Differentially Modulate Craving, Withdrawal and Cerebral Blood Flow as Measured with Arterial Spin Labeling.](#)

Addicott MA, Froeliger B, Kozink RV, Van Wert DM, Westman EC, Rose JE, McClernon FJ.

Neuropsychopharmacology. 2014 May 13. doi: 10.1038/npp.2014.108. [Epub ahead of print]

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NMR Biomed. 2014 May;27(5):529-38. doi: 10.1002/nbm.3088. Epub 2014 Feb 20.

[Intranasal insulin increases regional cerebral blood flow in the insular cortex in men independently of cortisol manipulation.](#)

Schilling TM, Ferreira de Sá DS, Westerhausen R, Strelzyk F, Larra MF, Hallschmid M, Savaskan E, Oitzl MS, Busch HP, Naumann E, Schächinger H.  
Hum Brain Mapp. 2014 May;35(5):1944-56. doi: 10.1002/hbm.22304. Epub 2013 Aug 1.

## Perfusion Studies Other than on the Brain

[A comparison of arterial spin labeling perfusion MRI and DCE-MRI in human prostate cancer.](#)

Cai W, Li F, Wang J, Du H, Wang X, Zhang J, Fang J, Jiang X.  
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## Cerebral Blood Flow Studies

### CBF Correlation with Age

[Resting brain perfusion and selected vascular risk factors in healthy elderly subjects.](#)

Henriksen OM, Jensen LT, Krabbe K, Guldberg P, Teerlink T, Rostrup E.  
PLoS One. 2014 May 19;9(5):e97363. doi: 10.1371/journal.pone.0097363. eCollection 2014.

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[Quantitative Cerebral Perfusion Imaging in Children and Young Adults with Moyamoya Disease: Comparison of Arterial Spin-Labeling-MRI and H2\[15O\]-PET.](#)

Goetti R, Warnock G, Kuhn FP, Guggenberger R, O'Gorman R, Buck A, Khan N, Scheer I. AJNR Am J Neuroradiol. 2014 May;35(5):1022-8. doi: 10.3174/ajnr.A3799. Epub 2013 Dec 12.

## CBF Regional Comparison/ Regional ASL

[Validation of planning-free vessel-encoded pseudo-continuous arterial spin labeling MR imaging as territorial-ASL strategy by comparison to super-selective p-CASL MRI.](#)

Hartkamp NS, Helle M, Chappell MA, Okell TW, Hendrikse J, Bokkers RP, van Osch MJ. Magn Reson Med. 2014 Jun;71(6):2059-70. doi: 10.1002/mrm.24872. Epub 2013 Jul 22.

## Studies on Special Disease

[Altered cerebral blood flow one month after systemic chemotherapy for breast cancer: a prospective study using pulsed arterial spin labeling MRI perfusion.](#)

Nudelman KN, Wang Y, McDonald BC, Conroy SK, Smith DJ, West JD, O'Neill DP, Schneider BP, Saykin AJ.

PLoS One. 2014 May 9;9(5):e96713. doi: 10.1371/journal.pone.0096713. eCollection 2014.

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Furtner J, Schöpf V, Preusser M, Asenbaum U, Woitek R, Wöhrer A, Hainfellner JA, Wolfsberger S, Prayer D.

Eur J Radiol. 2014 May;83(5):806-10. doi: 10.1016/j.ejrad.2014.01.017. Epub 2014 Jan 28.

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[Clinical Application of 3D Arterial Spin-Labeled Brain Perfusion Imaging for Alzheimer Disease: Comparison with Brain Perfusion SPECT.](#)

Takahashi H, Ishii K, Hosokawa C, Hyodo T, Kashiwagi N, Matsuki M, Ashikaga R, Murakami T.

AJNR Am J Neuroradiol. 2014 May;35(5):906-11. doi: 10.3174/ajnr.A3780. Epub 2013 Nov 21.

## Comparison of ASL Techniques / ASL Compared with Other Imaging Methods

[Comparison of cerebral blood flow acquired by simultaneous \[<sup>15</sup>O\]water positron emission tomography and arterial spin labeling magnetic resonance imaging.](#)

Zhang K, Herzog H, Mauler J, Filss C, Okell TW, Kops ER, Tellmann L, Fischer T, Brocke B, Sturm W, Coenen HH, Shah NJ.

J Cereb Blood Flow Metab. 2014 May 21. doi: 10.1038/jcbfm.2014.92. [Epub ahead of print]

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[Optimized simultaneous ASL and BOLD functional imaging of the whole brain.](#)

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### [Amygdala perfusion is predicted by its functional connectivity with the ventromedial prefrontal cortex and negative affect.](#)

Coombs III G, Loggia ML, Greve DN, Holt DJ.  
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[Mapping of arterial transit time by intravascular signal selection.](#)

Mildner T, Müller K, Hetzer S, Trampel R, Driesel W, Möller HE.

NMR Biomed. 2014 May;27(5):594-609. doi: 10.1002/nbm.3098. Epub 2014 Mar 9.

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## Technical Improvement/ Parameter Optimisation/ Theoretical Papers

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[Noncontrast dynamic 3D intracranial MR angiography using pseudo-continuous arterial spin labeling \(PCASL\) and accelerated 3D radial acquisition.](#)

Wu H, Block WF, Turski PA, Mistretta CA, Rusinak DJ, Wu Y, Johnson KM.

J Magn Reson Imaging. 2014 May;39(5):1320-6. doi: 10.1002/jmri.24279. Epub 2013 Oct 15.

[Near-contiguous spin echo imaging using matched-phase RF and its application in velocity-selective arterial spin labeling.](#)

Zun Z, Hargreaves BA, Pauly J, Zaharchuk G.

Magn Reson Med. 2014 Jun;71(6):2043-50. doi: 10.1002/mrm.24866. Epub 2013 Jul 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)