

Dear Colleagues,

Here is the ASL Newsletter No. 55.

## Recent publications

June 2015,

(e-publications might have been earlier):

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## Animal Studies

[Evaluation of EPI distortion correction methods for quantitative MRI of the brain at high magnetic field.](#)

Hong X, To XV, Teh I, Soh JR, Chuang KH.

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[Positron emission tomography/magnetic resonance hybrid scanner imaging of cerebral blood flow using <sup>15</sup>O-water positron emission tomography and arterial spin labeling magnetic resonance imaging in newborn piglets.](#)

Andersen JB, Henning WS, Lindberg U, Ladefoged CN, Højgaard L, Greisen G, Law I.

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Shaikh H, Lechpammer M, Jensen FE, Warfield SK, Hansen AH, Kosaras B, Shevell M, Wintermark P.

Transl Stroke Res. 2015 Jun;6(3):224-33. doi: 10.1007/s12975-015-0387-9. Epub 2015 Jan 27.

## Perfusion Studies Other than on the Brain

[Towards the Identification of Multi-Parametric Quantitative MRI Biomarkers in Lupus Nephritis.](#)

Rapacchi S, Smith RX, Wang Y, Yan L, Sigalov V, Krasileva KE, Karpouzas G, Plotnik A, Sayre J, Hernandez E, Verma A, Burkly L, Wisniacki N, Torrington J, He X, Hu P, Chiao PC, Wang DJ.

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[Intrahepatic portal vein blood volume estimated by non-contrast Magnetic Resonance Imaging for the assessment of portal hypertension.](#)

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## Cerebral Blood Flow Studies

### CBF Correlation with Age/ Pediatric Studies

[Using arterial spin labeling to examine mood states in youth.](#)

Mikita N, Mehta MA, Zelaya FO, Stringaris A.

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J Magn Reson Imaging. 2015 Jun;41(6):1591-600. doi: 10.1002/jmri.24716. Epub 2014 Aug 20.

## CBF Regional Comparison/ Regional ASL

### [Superselective pseudo-continuous arterial spin labeling angiography.](#)

Jensen-Kondering U, Lindner T, van Osch MJ, Rohr A, Jansen O, Helle M.  
Eur J Radiol. 2015 Jun 22. pii: S0720-048X(15)30006-1. doi: 10.1016/j.ejrad.2015.05.034.  
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### [Fast cerebral flow territory mapping using vessel encoded dynamic arterial spin labeling \(VE-DASL\).](#)

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Abe T, Mizobuchi Y, Sako W, Irahara S, Otomi Y, Obama Y, Nakajima K, Khashbat D, Majigsuren M, Kageji T, Nagahiro S, Harada M.

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Iryo Y, Hirai T, Nakamura M, Inoue Y, Watanabe M, Ando Y, Azuma M, Nishimura S, Shigematsu Y, Kitajima M, Yamashita Y.

Clin Radiol. 2015 Jun 6. pii: S0009-9260(15)00167-1. doi: 10.1016/j.crad.2015.05.002. [Epub ahead of print]

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Kenney K, Amyot F, Haber M, Pronger A, Bogoslovsky T, Moore C, Diaz-Arrastia R.

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[Feasibility and validity of monitoring subarachnoid hemorrhage by a noninvasive MRI imaging perfusion technique: Pulsed Arterial Spin Labeling \(PASL\).](#)

Labriffe M, Ter Minassian A, Pasco-Papon A, N'Guyen S, Aubé C.  
J Neuroradiol. 2015 Jun 2. pii: S0150-9861(15)00053-X. doi:  
10.1016/j.neurad.2015.04.001. [Epub ahead of print]

[Link between cerebral blood flow and autonomic function in survivors of internal carotid artery occlusion.](#)

Chang YT, Chang WN, Tsai NW, Huang CC, Wang HC, Kung CT, Su YJ, Lin WC, Chang HW, Cheng BC, Su CM, Chiang YF, Lu CH.  
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Zhou Y, Rodgers ZB, Kuo AH. *Magn Reson Imaging*. 2015 Jun;33(5):566-76. doi: 10.1016/j.mri.2015.02.018. Epub 2015 Feb 20.

## Functional Imaging / BOLD

[Characterizing Resting-State Brain Function using Arterial-Spin Labeling.](#)

Chen J, Jann K, Wang DJ. *Brain Connect*. 2015 Jun 24. [Epub ahead of print]

[Scratching Induces Overactivity in Motor-Related Regions and Reward System in Chronic Itch Patients.](#)

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[Modeling the role of osmotic forces in the cerebrovascular response to CO<sub>2</sub>.](#)

Tancredi FB, Girouard H, Hoge RD. *Med Hypotheses*. 2015 Jul;85(1):25-36. doi: 10.1016/j.mehy.2015.03.018. Epub 2015 Mar 25.



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[Multi-vendor reliability of arterial spin labeling perfusion MRI using a near-identical sequence: Implications for multi-center studies.](#)

Mutsaerts HJ, van Osch MJ, Zelaya FO, Wang DJ, Nordhøy W, Wang Y, Wastling S, Fernandez-Seara MA, Petersen ET, Pizzini FB, Fallatah S, Hendrikse J, Geier O, Günther M, Golay X, Nederveen AJ, Bjørnerud A, Groote IR.

Neuroimage. 2015 Jun;113:143-52. doi: 10.1016/j.neuroimage.2015.03.043. Epub 2015 Mar 24.

## ASL Data Analysis/ Comparison of ASL Evaluation Methods/ Kinetic Models/ Data Corrections

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## Case Reports

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## Technical Improvement/ Parameter Optimisation/ Theoretical Papers

[SU-E-I-65: Estimation of Tagging Efficiency in Pseudo-Continuous Arterial Spin Labeling \(pCASL\) MRI.](#)

Jen M, Yan F, Tseng Y, Lin C, Chen C, Liu H.

Med Phys. 2015 Jun;42(6):3256. doi: 10.1118/1.4924062.

[Evaluation of EPI distortion correction methods for quantitative MRI of the brain at high magnetic field.](#)

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[A method for reducing the effects of motion contamination in arterial spin labeling magnetic resonance imaging.](#)

Tanenbaum AB, Snyder AZ, Brier MR, Ances BM.

J Cereb Blood Flow Metab. 2015 Jun 3. doi: 10.1038/jcbfm.2015.124. [Epub ahead of print]

[Simultaneous multi-slice Turbo-FLASH imaging with CAIPIRINHA for whole brain distortion-free pseudo-continuous arterial spin labeling at 3 and 7T.](#)

Wang Y, Moeller S, Li X, Vu AT, Krasileva K, Ugurbil K, Yacoub E, Wang DJ.

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[Simultaneous multi-slice Turbo-FLASH imaging with CAIPIRINHA for whole brain distortion-free pseudo-continuous arterial spin labeling at 3 and 7T.](#)

Wang Y, Moeller S, Li X, Vu AT, Krasileva K, Ugurbil K, Yacoub E, Wang DJ.

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