

Dear Colleagues,

Here is the ASL Newsletter No. 52.

Happy Easter!

Kind regards,
Ina

Recent publications March 2015, (e-publications might have been earlier):

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Animal Studies

[Attenuation of acute stroke injury in rat brain by minocycline promotes blood-brain barrier remodeling and alternative microglia/macrophage activation during recovery.](#)

Yang Y, Salayandia VM, Thompson JF, Yang LY, Estrada EY, Yang Y.

J Neuroinflammation. 2015 Dec;12(1):245. doi: 10.1186/s12974-015-0245-4. Epub 2015 Feb 10.

[The dorsal posterior insula subserves a fundamental role in human pain.](#)

Segerdahl AR, Mezue M, Okell TW, Farrar JT, Tracey I.

Nat Neurosci. 2015 Apr;18(4):499-500. doi: 10.1038/nn.3969. Epub 2015 Mar 9.

[A novel mouse model of subcortical infarcts with dementia.](#)

Hattori Y, Enmi J, Kitamura A, Yamamoto Y, Saito S, Takahashi Y, Iguchi S, Tsuji M, Yamahara K, Nagatsuka K, Iida H, Ihara M.

J Neurosci. 2015 Mar 4;35(9):3915-28. doi: 10.1523/JNEUROSCI.3970-14.2015.

[Steady pulsed imaging and labeling scheme for noninvasive perfusion imaging.](#)

Xu J, Qin Q, Wu D, Hua J, Song X, McMahon MT, Northington FJ, Zhang J, van Zijl PC, Pekar JJ.

Magn Reson Med. 2015 Mar 2. doi: 10.1002/mrm.25641. [Epub ahead of print]

[Ultra-high spatial resolution basal and evoked cerebral blood flow MRI of the rat brain.](#)

Shen Q, Huang S, Duong TQ.

Brain Res. 2015 Mar 2;1599:126-36. doi: 10.1016/j.brainres.2014.12.049. Epub 2014 Dec 31.

[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. 2015 Apr;41(4):1124-8. doi: 10.1002/jmri.24645. Epub 2014 May 6.

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Sedlacik J, Reitz M, Bolar DS, Adalsteinsson E, Schmidt NO, Fiehler J.

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[Ketamine interactions with biomarkers of stress: a randomized placebo-controlled repeated measures resting-state fMRI and PCASL pilot study in healthy men.](#)

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Perfusion Studies Other than on the Brain

[Temporal assessment of pancreatic blood flow and perfusion following secretin stimulation using noninvasive MRI.](#)

Cox EF, Smith JK, Chowdhury AH, Lobo DN, Francis ST, Simpson J.

J Magn Reson Imaging. 2015 Mar 18. doi: 10.1002/jmri.24889. [Epub ahead of print]

[Non-contrast myocardial perfusion using a novel 4D magnetic resonance arterial spin labeling technique: Initial experience.](#)

Miyazaki M, Zhou X, Hoshino T, Yokoyama K, Ishimura R, Nitatori T.

Microvasc Res. 2015 Mar;98:94-101. doi: 10.1016/j.mvr.2015.01.007. Epub 2015 Jan 30.

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Magn Reson Med. 2015 Mar;73(3):1190-5. doi: 10.1002/mrm.25242. Epub 2014 Apr 17.

Cerebral Blood Flow Studies

CBF Correlation with Age/ Pediatric Studies

[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. 2015 Mar;28(1):57-66. doi: 10.1177/0891988714541871.

Epub 2014 Jul 9.

CBF Regional Comparison/ Regional ASL

[Increased Cerebral Blood Flow Associated with Better Response Inhibition in Bipolar Disorder.](#)

Dev SI, McKenna BS, Sutherland AN, Shin DD, Liu TT, Wierenga CE, Eyler LT.

J Int Neuropsychol Soc. 2015 Mar 16:1-11. [Epub ahead of print]

[Cerebral perfusion and cortical thickness indicate cortical involvement in mild Parkinson's disease.](#)

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Mov Disord. 2015 Mar 11. doi: 10.1002/mds.26128. [Epub ahead of print]

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[Environmental heat stress enhances mental fatigue during sustained attention task performing: evidence from an ASL perfusion study.](#)

Qian S, Li M, Li G, Liu K, Li B, Jiang Q, Li L, Yang Z, Sun G.

Behav Brain Res. 2015 Mar 1;280:6-15. doi: 10.1016/j.bbr.2014.11.036. Epub 2014 Nov 28.

Studies on Special Disease

[Cerebral hyperperfusion and decreased cerebrovascular reactivity correlate with neurologic disease severity in MELAS.](#)

Rodan LH, Poublanc J, Fisher JA, Sobczyk O, Wong T, Hlasny E, Mikulis D, Tein I. Mitochondrion. 2015 Mar 20. pii: S1567-7249(15)00042-2. doi: 10.1016/j.mito.2015.03.002. [Epub ahead of print]

[Measurement of tumor blood flow in head and neck squamous cell carcinoma by pseudo-continuous arterial spin labeling: Comparison with dynamic contrast-enhanced MRI.](#)

Fujima N, Kudo K, Tsukahara A, Yoshida D, Sakashita T, Homma A, Tha KK, Shirato H. J Magn Reson Imaging. 2015 Apr;41(4):spcone. doi: 10.1002/jmri.24885.

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Faraco CC, Strother MK, Dethrage LM, Jordan L, Singer R, Clemmons PF, Donahue MJ.
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[Comparison of velocity- and acceleration-selective arterial spin labeling with \[¹⁵O\]H₂O positron emission tomography.](#)

Schmid S, Heijtel DF, Mutsaerts HJ, Boellaard R, Lammertsma AA, Nederveen AJ, van Osch MJ.
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Magn Reson Med. 2015 Mar;73(3):1053-64. doi: 10.1002/mrm.25220. Epub 2014 Apr 18.

[Quantification of cerebral perfusion using dynamic quantitative susceptibility mapping.](#)

Xu B, Spincemaille P, Liu T, Prince MR, Dutruel S, Gupta A, Thimmappa ND, Wang Y.

Magn Reson Med. 2015 Apr;73(4):1540-8. doi: 10.1002/mrm.25257. Epub 2014 Apr 14.

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[3D GRASE pulsed arterial spin labeling at multiple inflow times in patients with long arterial transit times: comparison with dynamic susceptibility-weighted contrast-enhanced MRI at 3 Tesla.](#)

Martin SZ, Madai VI, von Samson-Himmelstjerna FC, Mutke MA, Bauer M, Herzig CX, Hetzer S, Günther M, Sobesky J.

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[Investigating the dependence of the calibration parameter M on echo time.](#)

Hare HV, Bulte DP.

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[Test-retest reliability of cerebral blood flow and blood oxygenation level-dependent responses to hypercapnia and hyperoxia using dual-echo pseudo-continuous arterial spin labeling and step changes in the fractional composition of inspired gases.](#)

Tancredi FB, Lajoie I, Hoge RD.

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

[Additive global cerebral blood flow normalization in arterial spin labeling perfusion imaging.](#)

Stewart SB, Koller JM, Campbell MC, Perlmutter JS, Black KJ.

PeerJ. 2015 Mar 17;3:e834. doi: 10.7717/peerj.834. eCollection 2015.

[Optimization of brain perfusion image quality by cortical surface-based projection of arterial spin labeling maps in early-onset Alzheimer's disease patients.](#)

Vercluyte S, Lopes R, Delmaire C, Ferre JC, Pasquier F, Leclerc X.
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Technical Improvement/ Parameter Optimisation/ Theoretical Papers

[3D time-resolved vessel-selective angiography based on pseudo-continuous arterial spin labeling.](#)

Lindner T, Jensen-Kondering U, van Osch MJ, Jansen O, Helle M.
Magn Reson Imaging. 2015 Mar 13. pii: S0730-725X(15)00075-2. doi:
10.1016/j.mri.2015.03.001. [Epub ahead of print]

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[Nonenhanced arterial spin labeled carotid MR angiography using three-dimensional radial balanced steady-state free precession imaging.](#)

Koktzoglou I, Meyer JR, Ankenbrandt WJ, Giri S, Piccini D, Zenge MO, Flanagan O, Desai T, Gupta N, Edelman RR.
J Magn Reson Imaging. 2015 Apr;41(4):1150-6. doi: 10.1002/jmri.24640. Epub 2014 Apr 16.

[An optimized design to reduce eddy current sensitivity in velocity-selective arterial spin labeling using symmetric BIR-8 pulses.](#)

Guo J, Meakin JA, Jezzard P, Wong EC.
Magn Reson Med. 2015 Mar;73(3):1085-94. doi: 10.1002/mrm.25227. Epub 2014 Apr 7.

Cohort Studies

[Recovery of Cerebral Blood Flow Following Sports-Related Concussion.](#)

Meier TB, Bellgowan PS, Singh R, Kuplicki R, Polanski DW, Mayer AR.
JAMA Neurol. 2015 Mar 2. doi: 10.1001/jamaneurol.2014.4778. [Epub ahead of print]

Review Paper/ Historical Review

[Imaging Innovations in Temporal Bone Disorders.](#)

Corrales CE, Fischbein N, Jackler RK.

Otolaryngol Clin North Am. 2015 Apr;48(2):263-280. doi: 10.1016/j.otc.2014.12.002.

Review.

Job offerings

If you have any vacancies please send them to jobsATasl-network.org

Feature articles

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