

Dear Colleagues,

Here is the ASL Newsletter No. 54.

Kind regards,

Ina

Recent publications

May 2015,

(e-publications might have been earlier):

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Animal Studies

["Domain gauges": A reference system for multivariate profiling of brain fMRI activation patterns induced by psychoactive drugs in rats.](#)

Bruns A, Mueggler T, Künnecke B, Risterucci C, Prinssen EP, Wettstein JG, von Kienlin M. Neuroimage. 2015 May 15;112:70-85. doi: 10.1016/j.neuroimage.2015.02.032. Epub 2015 Feb 25.

[Cerebral angiography, blood flow and vascular reactivity in progressive hypertension.](#)

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[Brain perfusion in polysubstance users: relationship to substance and tobacco use, cognition, and self-regulation.](#)

Murray DE, Durazzo TC, Mon A, Schmidt TP, Meyerhoff DJ. Drug Alcohol Depend. 2015 May 1;150:120-8. doi: 10.1016/j.drugalcdep.2015.02.022. Epub 2015 Feb 26.

Perfusion Studies Other than on the Brain

[Feasibility of measuring thermoregulation during RF heating of the human calf muscle using MR based methods.](#)

Simonis FF, Petersen ET, Lagendijk JJ, van den Berg CA. Magn Reson Med. 2015 May 14. doi: 10.1002/mrm.25710. [Epub ahead of print]

[Eccentricity mapping of the human visual cortex to evaluate temporal dynamics of functional T_{1ρ} mapping.](#)

Heo HY, Wemmie JA, Johnson CP, Thedens DR, Magnotta VA. J Cereb Blood Flow Metab. 2015 May 13. doi: 10.1038/jcbfm.2015.94. [Epub ahead of print]

Cerebral Blood Flow Studies

CBF Correlation with Age/ Pediatric Studies

[Choroid Plexus Neoplasms: Toward a Distinction between Carcinoma and Papilloma Using Arterial Spin-Labeling.](#)

Dangouloff-Ros V, Grevent D, Pagès M, Blauwblomme T, Calmon R, Elie C, Puget S, Sainte-Rose C, Brunelle F, Varlet P, Boddaert N.

AJNR Am J Neuroradiol. 2015 May 28. [Epub ahead of print]

CBF Regional Comparison/ Regional ASL

[Exercise intensity modulates the change in cerebral blood flow following aerobic exercise in chronic stroke.](#)

Robertson AD, Crane DE, Rajab AS, Swardfager W, Marzolini S, Shirzadi Z, Middleton LE, MacIntosh BJ.

Exp Brain Res. 2015 May 24. [Epub ahead of print]

[Decreased Regional Cerebral Perfusion in Moderate-Severe Obstructive Sleep Apnoea during Wakefulness.](#)

Innes CR, Kelly PT, Hlavac M, Melzer TR, Jones RD.

Sleep. 2015 May 1;38(5):699-706. doi: 10.5665/sleep.4658.

[Cerebral perfusion differences in women currently with and recovered from anorexia nervosa.](#)

Sheng M, Lu H, Liu P, Thomas BP, McAdams CJ.

Psychiatry Res. 2015 May 30;232(2):175-83. doi: 10.1016/j.psychresns.2015.02.008.

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Epub 2015 Feb 26.

Studies on Special Disease

[Early-stage differentiation between presenile Alzheimer's disease and frontotemporal dementia using arterial spin labeling MRI.](#)

Steketee RM, Bron EE, Meijboom R, Houston GC, Klein S, Mutsaerts HJ, Orellana CP, de Jong FJ, van Swieten JC, van der Lugt A, Smits M.

Eur Radiol. 2015 May 31. [Epub ahead of print]

[Cerebral Hypoperfusion and Hypometabolism Detected by Arterial Spin Labeling MRI and FDG-PET in Early-Onset Alzheimer's Disease.](#)

Verclytte S, Lopes R, Lenfant P, Rollin A, Semah F, Leclerc X, Pasquier F, Delmaire C.
J Neuroimaging. 2015 May 29. doi: 10.1111/jon.12264. [Epub ahead of print]

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[Brain perfusion by arterial spin labeling MRI in multiple sclerosis.](#)

Koudriavtseva T, Plantone D, Renna R, Inglese M.
J Neurol. 2015 May 28. [Epub ahead of print]

[Presurgical evaluation of mesial temporal lobe epilepsy with multiple advanced MR techniques at 3T.](#)

Eryurt B, Oner AY, Ucar M, Capraz I, Kurt G, Bilir E, Tali ET.
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[Alterations in default-mode network connectivity may be influenced by cerebrovascular changes within 1 week of sports related concussion in college varsity athletes: a pilot study.](#)

Militana AR, Donahue MJ, Sills AK, Solomon GS, Gregory AJ, Strother MK, Morgan VL.
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Boscolo Galazzo I, Storti SF, Del Felice A, Pizzini FB, Arcaro C, Formaggio E, Mai R, Chappell M, Beltramello A, Manganotti P.
PLoS One. 2015 May 6;10(5):e0123975. doi: 10.1371/journal.pone.0123975. eCollection 2015.

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Epub 2015 Feb 27.

[Multiphase arterial spin labeling assessment of cerebral perfusion changes associated with middle cerebral artery stenosis.](#)

Chen J, Zhao B, Bai M, Bu C.

Acad Radiol. 2015 May;22(5):610-8. doi: 10.1016/j.acra.2014.12.016. Epub 2015 Jan 27.

[Clinical utility of arterial spin-labeling as a confirmatory test for suspected brain death.](#)

Kang KM, Yun TJ, Yoon BW, Jeon BS, Choi SH, Kim JH, Kim JE, Sohn CH, Han MH.

AJNR Am J Neuroradiol. 2015 May;36(5):909-14. doi: 10.3174/ajnr.A4209. Epub 2015 Jan 8.

[Assessing Blood Flow in an Intracranial Stent: A Feasibility Study of MR Angiography Using a Silent Scan after Stent-Assisted Coil Embolization for Anterior Circulation Aneurysms.](#)

Irie R, Suzuki M, Yamamoto M, Takano N, Suga Y, Hori M, Kamagata K, Takayama M, Yoshida M, Sato S, Hamasaki N, Oishi H, Aoki S.

AJNR Am J Neuroradiol. 2015 May;36(5):967-70. doi: 10.3174/ajnr.A4199. Epub 2014 Dec 18.

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Hum Brain Mapp. 2015 May;36(5):1937-50. doi: 10.1002/hbm.22747. Epub 2015 Jan 30.

[Improved multislice perfusion imaging with velocity-selective arterial spin labeling.](#)

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

J Magn Reson Imaging. 2015 May;41(5):1422-31. doi: 10.1002/jmri.24652. Epub 2014 May 6.

[Recovery of cerebral blood flow following sports-related concussion.](#)

Meier TB, Bellgowan PS, Singh R, Kuplicki R, Polanski DW, Mayer AR.

JAMA Neurol. 2015 May 1;72(5):530-8. doi: 10.1001/jamaneurol.2014.4778.

[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 May;22:66-74. doi: 10.1016/j.mito.2015.03.002. Epub 2015 Mar 21.

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Neuroimage. 2015 May 1;111:329-37. doi: 10.1016/j.neuroimage.2015.02.053. Epub 2015 Feb 27.

[High accuracy of arterial spin labeling perfusion imaging in differentiation of pilomyxoid from pilocytic astrocytoma.](#)

Nabavizadeh SA, Assadsangabi R, Hajmomenian M, Santi M, Vossough A.

Neuroradiology. 2015 May;57(5):527-33. doi: 10.1007/s00234. Epub 2015 Feb 10.

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[Patient-specific detection of cerebral blood flow alterations as assessed by arterial spin labeling in drug-resistant epileptic patients.](#)

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Barthel H, Schroeter ML, Hoffmann KT, Sabri O.

Semin Nucl Med. 2015 May; 45(3):224-33. doi: 10.1053/j.semnuclmed.2014.12.003. Review.

Functional Imaging / BOLD

[Cardiorespiratory fitness modifies the relationship between myocardial function and cerebral blood flow in older adults.](#)

Johnson NF, Gold BT, Bailey AL, Clasey JL, Hakun JG, White M, Long D, Powell DK.

Neuroimage. 2015 May 30. pii: S1053-8119(15)00453-X. doi: 10.1016/j.neuroimage.2015.05.063. [Epub ahead of print]

[Voxel-wise functional connectomics using arterial spin labeling fMRI: the role of denoising.](#)

Liang X, Connelly A, Calamante F.

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[Quantitative and functional pulsed arterial spin labeling in the human brain at 9.4 t.](#)

Bause J, Ehses P, Mirkes C, Shajan G, Scheffler K, Pohmann R.

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Reproducibility Studies

[Reproducibility of multiphase pseudo-continuous arterial spin labeling and the effect of post-processing analysis methods.](#)

Fazlollahi A, Bourgeat P, Liang X, Meriaudeau F, Connelly A, Salvado O, Calamante F.
Neuroimage. 2015 May 27;117:191-201. doi: 10.1016/j.neuroimage.2015.05.048. [Epub ahead of print]

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

[The Cerebral Blood Flow Biomedical Informatics Research Network \(CBFBIRN\) data repository.](#)

Shin DD, Ozyurt IB, Brown GG, Fennema-Notestine C, Liu TT.
Neuroimage. 2015 May 30. pii: S1053-8119(15)00449-8. doi: 10.1016/j.neuroimage.2015.05.059. [Epub ahead of print]

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[Physiological and Functional Magnetic Resonance Imaging Using Balanced Steady-state Free Precession.](#)

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Review Paper/ Historical Review

[Cerebrovascular MRI: a review of state-of-the-art approaches, methods and techniques.](#)

MacDonald ME, Frayne R.

NMR Biomed. 2015 May 26. doi: 10.1002/nbm.3322. [Epub ahead of print]

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Radiol Clin North Am. 2015 May;53(3):549-567. doi: 10.1016/j.rcl.2015.01.005. Review.

[Noncontrast Magnetic Resonance Angiography: Concepts and Clinical Applications.](#)

Lim RP, Koktzoglou I.

Radiol Clin North Am. 2015 May;53(3):457-476. doi: 10.1016/j.rcl.2014.12.003. Review.

[Arterial spin labeling MRI: clinical applications in the brain.](#)

Telischak NA, Detre JA, Zaharchuk G.

J Magn Reson Imaging. 2015 May;41(5):1165-80. doi: 10.1002/jmri.24751. Epub 2014 Sep 19.

[State-of-the-art MRI techniques in neuroradiology: principles, pitfalls, and clinical applications.](#)

Viallon M, Cuvinciu V, Delattre B, Merlini L, Barnaure-Nachbar I, Toso-Patel S, Becker M, Lovblad KO, Haller S.

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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