

Dear Colleagues,

Here is the ASL Newsletter No. 53.

We also would like to invite you to this year's **ASL Network Dinner** at the ISMRM in Toronto, which will be sponsored by



As with every year this event offers a great opportunity to network with colleagues from the ASL community.

Date: Sunday, May 31st 2015, 7:30 pm

Venue: C'est what, 67 Front St E, Toronto, ON M5E 1B5

If you would like to join, please send an email to editorATasl-network.org latest until **May 15th 2015**.

Kind regards,
Ina

Recent publications

April 2015,

(e-publications might have been earlier):

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Animal Studies

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

Li Y, Shen Q, Huang S, Li W, Muir ER, Long JA, Duong TQ.

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

[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.

["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.

[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.

Pharmacological / Drug Studies / Studies on the Effects of Therapies

[Cerebral Blood Flow Changes in Glioblastoma Patients Undergoing Bevacizumab Treatment Are Seen in Both Tumor and Normal Brain.](#)

Andre JB, Nagpal S, Hippe DS, Ravanpay AC, Schmiedeskamp H, Bammer R, Palagallo GJ, Recht L, Zaharchuk G.

Neuroradiol J. 2015 Apr 28. pii: 1971400915576641. [Epub ahead of print]

[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.

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Perfusion Studies Other than on the Brain Cerebral Blood Flow Studies

[Feasibility of ASL spinal bone marrow perfusion imaging with optimized inversion time.](#)

Xing D, Zha Y, Yan L, Wang K, Gong W, Lin H.

J Magn Reson Imaging. 2015 Apr 9. doi: 10.1002/jmri.24891. [Epub ahead of print]

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CBF Correlation with Age/ Pediatric Studies

[Automated removal of spurious intermediate cerebral blood flow volumes improves image quality among older patients: A clinical arterial spin labeling investigation.](#)

Shirzadi Z, Crane DE, Robertson AD, Maralani PJ, Aviv RI, Chappell MA, Goldstein BI, Black SE, MacIntosh BJ.

J Magn Reson Imaging. 2015 Apr 15. doi: 10.1002/jmri.24918. [Epub ahead of print]

[Arterial spin labeling magnetic resonance imaging: toward noninvasive diagnosis and follow-up of pediatric brain arteriovenous malformations.](#)

Blauwblomme T, Naggara O, Brunelle F, Grévent D, Puget S, Di Rocco F, Beccaria K, Paternoster G, Bourgeois M, Kossorotoff M, Zerah M, Sainte-Rose C, Boddaert N.

J Neurosurg Pediatr. 2015 Apr;15(4):451-8. doi: 10.3171/2014.9.PEDS14194. Epub 2015 Jan 30.

CBF Regional Comparison/ Regional ASL

[Asymmetry of cerebral blood flow measured with three-dimensional pseudocontinuous arterial spin-labeling MR imaging in temporal lobe epilepsy with and without mesial temporal sclerosis.](#)

Guo X, Xu S, Wang G, Zhang Y, Guo L, Zhao B.

J Magn Reson Imaging. 2015 Apr 17. doi: 10.1002/jmri.24920. [Epub ahead of print]

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

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

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[Evaluation of the degree of arteriovenous shunting in intracranial arteriovenous malformations using pseudo-continuous arterial spin labeling magnetic resonance imaging.](#)

Sunwoo L, Sohn CH, Lee JY, Yi KS, Yun TJ, Choi SH, Cho YD, Kim JH, Park SW, Han MH, Paek SH, Kim YH, Kim JW, Chung HT, Kim DG.

Neuroradiology. 2015 Apr 24. [Epub ahead of print]

[Medullary hemangioblastoma in a child with von Hippel-Lindau disease: vascular tumor perfusion depicted by arterial spin labeling and dynamic contrast-enhanced imaging.](#)

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[Raw Arterial Spin Labeling Data Can Help Identify Arterial Occlusion in Acute Ischemic Stroke.](#)

Majer M, Mejdoubi M, Schertz M, Colombani S, Arrigo A.
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J Magn Reson Imaging. 2015 Apr;41(4):spcone. doi: 10.1002/jmri.24885.

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[Nonconvulsive Partial Status Epilepticus Mimicking Recurrent Infarction Revealed by Diffusion-weighted and Arterial Spin Labeling Perfusion Magnetic Resonance Images.](#)

Kanazawa Y, Morioka T, Arakawa S, Furuta Y, Nakanishi A, Kitazono T.
J Stroke Cerebrovasc Dis. 2015 Apr;24(4):731-8. doi:
10.1016/j.jstrokecerebrovasdis.2014.09.026. Epub 2015 Feb 24.

[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/s00234-015-1497-5. Epub 2015 Feb
10.

[Resting state functional connectivity of the subthalamic nucleus in Parkinson's disease assessed using arterial spin-labeled perfusion fMRI.](#)

Fernández-Seara MA, Mengual E, Vidorreta M, Castellanos G, Irigoyen J, Erro E, Pastor MA. Hum Brain Mapp. 2015 May;36(5):1937-50. doi: 10.1002/hbm.22747. Epub 2015 Jan 30.

[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.

[Arterial spin labeling magnetic resonance imaging: toward noninvasive diagnosis and follow-up of pediatric brain arteriovenous malformations.](#)

Blauwblomme T, Naggara O, Brunelle F, Grévent D, Puget S, Di Rocco F, Beccaria K, Paternoster G, Bourgeois M, Kossorotoff M, Zerah M, Sainte-Rose C, Boddaert N.

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Qiao XJ, Ellingson BM, Kim HJ, Wang DJ, Salamon N, Linetsky M, Sepahdari AR, Jiang B, Tian JJ, Esswein SR, Cloughesy TF, Lai A, Nghiemphu L, Pope WB.

AJNR Am J Neuroradiol. 2015 Apr;36(4):672-7. doi: 10.3174/ajnr.A4196. Epub 2014 Dec 26.

[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.

[Dual echo vessel-encoded ASL for simultaneous BOLD and CBF reactivity assessment in patients with ischemic cerebrovascular disease.](#)

Faraco CC, Strother MK, Dethrage LM, Jordan L, Singer R, Clemmons PF, Donahue MJ.

Magn Reson Med. 2015 Apr;73(4):1579-92. doi: 10.1002/mrm.25268. Epub 2014 Apr 22.

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J Magn Reson Imaging. 2015 Apr;41(4):983-91. doi: 10.1002/jmri.24637. Epub 2014 Apr 10.

[pASL versus DSC perfusion MRI in lateralizing temporal lobe epilepsy.](#)

Oner AY, Eryurt B, Ucar M, Capraz I, Kurt G, Bilir E, Tali T.

Acta Radiol. 2015 Apr;56(4):477-81. doi: 10.1177/0284185114531128. Epub 2014 Apr 29.

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[Arterial Spin-Labeling Parameters Influence Signal Variability and Estimated Regional Relative Cerebral Blood Flow in Normal Aging and Mild Cognitive Impairment: FAIR versus PICORe Techniques.](#)

Lövblad KO, Montandon ML, Viallon M, Rodriguez C, Toma S, Golay X, Giannakopoulos P, Haller S.
AJNR Am J Neuroradiol. 2015 Apr 16. [Epub ahead of print]

[PET/MR in Dementia and Other Neurodegenerative Diseases.](#)

Barthel H, Schroeter ML, Hoffmann KT, Sabri O.
Semin Nucl Med. 2015 May;45(3):224-233. doi: 10.1053/j.semnuclmed.2014.12.003.
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[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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Functional Imaging / BOLD

[Understanding the dynamic relationship between cerebral blood flow and the BOLD signal: Implications for quantitative functional MRI.](#)

Simon AB, Buxton RB.
Neuroimage. 2015 Apr 8. pii: S1053-8119(15)00276-1. doi: 10.1016/j.neuroimage.2015.03.080. [Epub ahead of print]

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Halani S, Kwinta JB, Golestani AM, Khatamian YB, Chen JJ.

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[Associations of Resting-State fMRI Functional Connectivity with Flow-BOLD Coupling and Regional Vasculature.](#)

Tak S, Polimeni JR, Wang DJ, Yan L, Chen JJ.

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

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Shirzadi Z, Crane DE, Robertson AD, Maralani PJ, Aviv RI, Chappell MA, Goldstein BI, Black SE, MacIntosh BJ.

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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.

Review Paper/ Historical Review

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

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

Neuroradiology. 2015 May;57(5):441-67. doi: 10.1007/s00234-015-1500-1. Epub 2015 Apr 10.

[3D Pseudocontinuous arterial spin labeling in routine clinical practice: A review of clinically significant artifacts.](#)

Amukotuwa SA, Yu C, Zaharchuk G.

J Magn Reson Imaging. 2015 Apr 9. doi: 10.1002/jmri.24873. [Epub ahead of print]

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[Imaging innovations in temporal bone disorders.](#)

Corrales CE, Fischbein N, Jackler RK.

Otolaryngol Clin North Am. 2015 Apr;48(2):263-80. doi: 10.1016/j.otc.2014.12.002.
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.

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