

Dear Colleagues,

A little late, but here it is: the ASL Newsletter No. 62.

For a better overview we added a '*new*-flag' to articles which haven't been in earlier newsletters (e.g. as e-publications). Additionally you will find some titles printed in bold letters which indicates that they are listed for the first time in this particular newsletter. For articles listed multiple times in different sections the bold letters disappear in the later sections. Hope this facilitates reading.

In case you haven't noticed, there are some job offers worth being checked out (see according section).

Kind regards,
Klaus

Recent publications January 2016, (Epub & Print):

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Animal Studies

new

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[Kidney Transplantation: Multiparametric Functional Magnetic Resonance Imaging for Assessment of Renal Allograft Pathophysiology in Mice.](#)

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[Changes in the regional cerebral blood flow detected by arterial spin labeling after 6-week escitalopram treatment for major depressive disorder.](#)

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Cerebral Blood Flow Studies

CBF Regional Comparison / Regional ASL

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Robertson AD, Messner MA, Shirzadi Z, Kleiner-Fisman G, Lee J, Hopyan J, Lang AE, Black SE, MacIntosh BJ, Masellis M.

Parkinsonism Relat Disord. 2016 Jan;22:80-6. doi: 10.1016/j.parkreldis.2015.11.019. Epub 2015 Nov 23.

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new

Utility of arterial spin labeling perfusion magnetic resonance imaging in prediction of angiographic vascularity of meningiomas.

Yoo RE, Yun TJ, Cho YD, Rhim JH, Kang KM, Choi SH, Kim JH, Kim JE, Kang HS, Sohn CH, Park SW, Han MH.

J Neurosurg. 2016 Jan 29:1-8. [Epub ahead of print]

new

Non-invasive imaging of oxygen extraction fraction in adults with sickle cell anaemia.

Jordan LC, Gindville MC, Scott AO, Juttukonda MR, Strother MK, Kassim AA, Chen SC, Lu H, Pruthi S, Shyr Y, Donahue MJ.

Brain. 2016 Jan 27. pii: awv397. [Epub ahead of print]

new

Default Mode Network Perfusion in Aneurysmal Subarachnoid Hemorrhage.

Nelson S, Edlow BL, Wu O, Rosenthal ES, Westover MB, Rordorf G.

Neurocrit Care. 2016 Jan 22. [Epub ahead of print]

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Medicine (Baltimore). 2016 Jan;95(2):e2526. doi: 10.1097/MD.0000000000002526.

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Regional reduction in cortical blood flow among cognitively impaired adults with relapsing-remitting multiple sclerosis patients.

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A novel use of arterial spin labelling MRI to demonstrate focal hypoperfusion in individuals with posterior cortical atrophy: a multimodal imaging study.

Lehmann M, Melbourne A, Dickson JC, Ahmed RM, Modat M, Cardoso MJ, Thomas DL, De Vita E, Crutch SJ, Warren JD, Mahoney CJ, Bomanji J, Hutton BF, Fox NC, Golay X, Ourselin S, Schott JM.

J Neurol Neurosurg Psychiatry. 2016 Jan 5. pii: jnnp-2015-312782. doi: 10.1136/jnnp-2015-312782. [Epub ahead of print] [Free Article](#)

new

Arterial Spin Labeling Magnetic Resonance Imaging Estimation of Antegrade and Collateral Flow in Unilateral Middle Cerebral Artery Stenosis.

Lyu J, Ma N, Liebeskind DS, Wang DJ, Ma L, Xu Y, Wang T, Miao Z, Lou X. Stroke. 2016 Feb;47(2):428-33. doi: 10.1161/STROKEAHA.115.011057. Epub 2016 Jan 5.

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Discriminative Power of Arterial Spin Labeling Magnetic Resonance Imaging and 18F-Fluorodeoxyglucose Positron Emission Tomography Changes for Amyloid- β -Positive Subjects in the Alzheimer's Disease Continuum.

Tosun D, Schuff N, Jagust W, Weiner MW; Alzheimer's Disease Neuroimaging Initiative. Neurodegener Dis. 2016;16(1-2):87-94. doi: 10.1159/000439257. Epub 2015 Nov 12.

Prediction of Early Reperfusion From Repeated Arterial Spin Labeling Perfusion Magnetic Resonance Imaging During Intravenous Thrombolysis.

Okazaki S, Griebbe M, Gregori J, Günther M, Sauter-Servaes J, Wolf ME, Gass A, Hennerici MG, Szabo K, Kern R. Stroke. 2016 Jan;47(1):247-50. doi: 10.1161/STROKEAHA.115.011482. Epub 2015 Oct 29.

MR Imaging-Based Analysis of Glioblastoma Multiforme: Estimation of IDH1 Mutation Status.

Yamashita K, Hiwatashi A, Togao O, Kikuchi K, Hatae R, Yoshimoto K, Mizoguchi M, Suzuki SO, Yoshiura T, Honda H. AJNR Am J Neuroradiol. 2016 Jan;37(1):58-65. doi: 10.3174/ajnr.A4491. Epub 2015 Sep 24.

Accuracy of arterial spin labeling magnetic resonance imaging (MRI) perfusion in detecting the epileptogenic zone in patients with drug-resistant neocortical epilepsy: comparison with electrophysiological data, structural MRI, SISCOM and FDG-PET.

Sierra-Marcos A, Carreño M, Setoain X, López-Rueda A, Aparicio J, Donaire A, Bargalló N. Eur J Neurol. 2016 Jan;23(1):160-7. doi: 10.1111/ene.12826. Epub 2015 Sep 8.

Monitoring Cerebrovascular Reactivity through the Use of Arterial Spin Labeling in Patients with Moyamoya Disease.

Yun TJ, Paeng JC, Sohn CH, Kim JE, Kang HS, Yoon BW, Choi SH, Kim JH, Lee HY, Han MH, Zaharchuk G. Radiology. 2016 Jan;278(1):205-13. doi: 10.1148/radiol.2015141865. Epub 2015 Jul 21.

Cerebral Vascular Injury in Traumatic Brain Injury.

Kenney K, Amyot F, Haber M, Pronger A, Bogoslovsky T, Moore C, Diaz-Arrastia R.
Exp Neurol. 2016 Jan;275 Pt 3:353-66. doi: 10.1016/j.expneurol.2015.05.019. Epub 2015 Jun 3.

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, Mendez Orellana CP, de Jong FJ, van Swieten JC, van der Lugt A, Smits M.
Eur Radiol. 2016 Jan;26(1):244-53. doi: 10.1007/s00330-015-3789-x. Epub 2015 May 31.
[Free PMC Article](#)

Arterial spin labeled carotid MR angiography: A phantom study examining the impact of technical and hemodynamic factors.

Koktzoglou I, Giri S, Piccini D, Grodzki DM, Flanagan O, Murphy IG, Gupta N, Collins JD, Edelman RR.
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[Baseline oxygenation in the brain: Correlation between respiratory-calibration and susceptibility methods.](#)

Fan AP, Schäfer A, Huber L, Lampe L, von Smuda S, Möller HE, Villringer A, Gauthier CJ. Neuroimage. 2016 Jan 15;125:920-31. doi: 10.1016/j.neuroimage.2015.11.007. Epub 2015 Nov 5.

[Humoral Mediators of Remote Ischemic Conditioning: Important Role of eNOS/NO/Nitrite.](#)

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Haga S, Morioka T, Shimogawa T, Akiyama T, Murao K, Kanazawa Y, Sayama T, Arakawa S. J Stroke Cerebrovasc Dis. 2016 Jan;25(1):1-6. doi: 10.1016/j.jstrokecerebrovasdis.2015.08.025. Epub 2015 Sep 19.

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J Stroke Cerebrovasc Dis. 2016 Jan;25(1):228-37. doi:
10.1016/j.jstrokecerebrovasdis.2015.09.023. Epub 2015 Oct 26.

[The absolute CBF response to activation is preserved during elevated perfusion: Implications for neurovascular coupling measures.](#)

Whittaker JR, Driver ID, Bright MG, Murphy K.
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Others CBF Related

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[Assessing intracranial vascular compliance using dynamic arterial spin labeling.](#)

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

Shin DD, Ozyurt IB, Brown GG, Fennema-Notestine C, Liu TT.

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ASL Databases and Data Sharing

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Sommer G, Bauman G.

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[Oxygen challenge magnetic resonance imaging in healthy human volunteers.](#)

Dani KA, Moreton FC, Santosh C, Lopez R, Brennan D, Schwarzbauer C, Goutcher C, O'Hare K, Macrae IM, Muir KW.

J Cereb Blood Flow Metab. 2016 Jan 19. pii: 0271678X15627827. [Epub ahead of print]

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Mult Scler. 2016 Jan 11. pii: 1352458515622696. [Epub ahead of print]

Review Paper / Historical Review / Guidelines

new

[Quantitative perfusion imaging in magnetic resonance imaging].

Zöllner FG, Gaa T, Zimmer F, Ong MM, Riffel P, Hausmann D, Schoenberg SO, Weis M. Radiologe. 2016 Jan 21. [Epub ahead of print] German.

Advanced Neuroimaging of Mild Traumatic Brain Injury.

Koerte IK, Hufschmidt J, Muehlmann M, Lin AP, Shenton ME.

In: Laskowitz D, Grant G, editors. Translational Research in Traumatic Brain Injury. Boca Raton (FL): CRC Press/Taylor and Francis Group; 2016. Chapter 13. Free Books & Documents

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. 2016 Jan;43(1):11-27. doi: 10.1002/jmri.24873. Epub 2015 Apr 9.

Job offerings

Open positions for MR physicists & technician online! Have <http://asl-network.org/jobs>

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