

Dear Colleagues,

Here is the ASL Newsletter No. 76.

Kind regards,
Klaus

Recent publications

July 2016, (Epub & Print)

Note: The '*new*-flag' is assigned to articles which haven't been in earlier newsletters (e.g. as e-publications). Additionally you will find 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.

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Animal Studies

new

[Hyperpolarized ¹³C magnetic resonance evaluation of renal ischemia reperfusion injury in a murine model.](#)

Baligand C, Qin H, True-Yasaki A, Gordon JW, von Morze C, Santos JD, Wilson DM, Raffai R, Cowley PM, Baker AJ, Kurhanewicz J, Lovett DH, Wang ZJ.
NMR Biomed. 2017 Jul 14. doi: 10.1002/nbm.3765. [Epub ahead of print]

Pharmacological / Drug Studies / Studies on the Effects of Therapies

new

[Perfusion of surgical cavity wall enhancement in early post-treatment MR imaging may stratify the time-to-progression in glioblastoma.](#)

Park JE, Ryu KH, Kim HS, Kim HW, Shim WH, Jung SC, Choi CG, Kim SJ, Kim JH.
PLoS One. 2017 Jul 21;12(7):e0181933. doi: 10.1371/journal.pone.0181933. eCollection 2017.
[Free Article](#)

new

[The Insular Cortex Dynamically Maps Changes in Cardiorespiratory Interoception.](#)

Hassanpour MS, Simmons WK, Feinstein JS, Luo Q, Lapidus R, Bodurka J, Paulus MP, Khalsa SS.
Neuropsychopharmacology. 2017 Jul 20. doi: 10.1038/npp.2017.154. [Epub ahead of print]

new

[Two dose investigation of the 5-HT-agonist psilocybin on relative and global cerebral blood flow.](#)

Lewis CR, Preller KH, Kraehenmann R, Michels L, Staempfli P, Vollenweider FX.
Neuroimage. 2017 Jul 12;159:70-78. doi: 10.1016/j.neuroimage.2017.07.020. [Epub ahead of print]

new

[Fluid-attenuated inversion recovery vascular hyperintensities in predicting cerebral hyperperfusion after intracranial arterial stenting.](#)

Wan CC, Chen DY, Tseng YC, Yan FX, Lee KY, Chiang CH, Chen CJ.
Neuroradiology. 2017 Aug;59(8):791-796. doi: 10.1007/s00234-017-1863-6. Epub 2017 Jul 8.

new

[Cerebral Perfusion After Repair of Congenital Diaphragmatic Hernia with Common Carotid Artery Occlusion After ECMO Therapy.](#)

Henzler C, Zöllner FG, Weis M, Zimmer F, Schoenberg SO, Zahn K, Schaible T, Neff KW.
In Vivo. 2017 Jul-Aug;31(4):557-564.

Neural response to catecholamine depletion in remitted bulimia nervosa: Relation to depression and relapse.

Mueller SV, Mihov Y, Federspiel A, Wiest R, Hasler G.

Eur Neuropsychopharmacol. 2017 Jul;27(7):633-646. doi: 10.1016/j.euroneuro.2017.04.002.

Epub 2017 May 11.

[Free Article](#)

Cerebral Blood Flow Studies

Studies on Special Disease

new

Grading and outcome prediction of pediatric diffuse astrocytic tumors with diffusion and arterial spin labeling perfusion MRI in comparison with 18F-DOPA PET.

Morana G, Piccardo A, Tortora D, Puntoni M, Severino M, Nozza P, Ravegnani M, Consales A, Mascelli S, Raso A, Cabria M, Verrico A, Milanaccio C, Rossi A.

Eur J Nucl Med Mol Imaging. 2017 Jul 27. doi: 10.1007/s00259-017-3777-2. [Epub ahead of print]

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Comparison of PASL, PCASL, and background-suppressed 3D PCASL in mild cognitive impairment.

Dolui S, Vidorreta M, Wang Z, Nasrallah IM, Alavi A, Wolk DA, Detre JA.

Hum Brain Mapp. 2017 Jul 24. doi: 10.1002/hbm.23732. [Epub ahead of print]

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Cerebral blood flow changes in remitted early- and late-onset depression patients.

Liao W, Wang Z, Zhang X, Shu H, Wang Z, Liu D, Zhang Z.

Oncotarget. 2017 Jul 12. doi: 10.18632/oncotarget.19185. [Epub ahead of print]

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3D Pseudocontinuous Arterial Spin-Labeling MR Imaging in the Preoperative Evaluation of Gliomas.

Zeng Q, Jiang B, Shi F, Ling C, Dong F, Zhang J.

AJNR Am J Neuroradiol. 2017 Jul 20. doi: 10.3174/ajnr.A5299. [Epub ahead of print]

new

Functional brain MRI in patients complaining of electrohypersensitivity after long term exposure to electromagnetic fields.

Heuser G, Heuser SA.

Rev Environ Health. 2017 Jul 5. pii: /j/reveh.ahead-of-print/reveh-2017-0014/reveh-2017-0014.xml. doi: 10.1515/reveh-2017-0014. [Epub ahead of print]

new

Arterial spin labelling shows functional depression of non-lesion tissue in chronic Wernicke's aphasia.

Robson H, Specht K, Beaumont H, Parkes LM, Sage K, Lambon Ralph MA, Zahn R.

Cortex. 2017 Jul;92:249-260. doi: 10.1016/j.cortex.2016.11.002. Epub 2016 Nov 10.

[Free PMC Article](#)

Cerebrovascular resistance: effects on cognitive decline, cortical atrophy, and progression to dementia.

Yew B, Nation DA; Alzheimer's Disease Neuroimaging Initiative.

Brain. 2017 Jul 1;140(7):1987-2001. doi: 10.1093/brain/awx112.

Neural response to catecholamine depletion in remitted bulimia nervosa: Relation to depression and relapse.

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Eur Neuropsychopharmacol. 2017 Jul;27(7):633-646. doi: 10.1016/j.euroneuro.2017.04.002.

Epub 2017 May 11.

[Free Article](#)

Clinical assessment of cerebral hemodynamics in Moyamoya disease via multiple inversion time arterial spin labeling and dynamic susceptibility contrast-magnetic resonance imaging: A comparative study.

Qiao PG, Han C, Zuo ZW, Wang YT, Pfeuffer J, Duan L, Qian T, Li GJ.

J Neuroradiol. 2017 Jul;44(4):273-280. doi: 10.1016/j.neurad.2016.12.006. Epub 2017 Feb 4.

Perfusion MRI Can Impact Treatment Decision in Ictal-Interictal Continuum.

Venkatraman A, Khawaja A, Bag AK, Mirza M, Szaflarski JP, Pati SBB.

J Clin Neurophysiol. 2017 Jul;34(4):e15-e18. doi: 10.1097/WNP.0000000000000350.

Comparison of ASL Techniques / ASL Compared with Other Imaging Methods / ASL Combined with Other Imaging Methods

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Cecchin D, Palombit A, Castellaro M, Silvestri E, Bui F, Barthel H, Sabri O, Corbetta M, Bertoldo A.

Q J Nucl Med Mol Imaging. 2017 Jul 27. doi: 10.23736/S1824-4785.17.03008-4. [Epub ahead of print]

new

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Hum Brain Mapp. 2017 Jul 24. doi: 10.1002/hbm.23732. [Epub ahead of print]

new

Contribution of arterial spin-labelling MRI in a case with immune reconstitution inflammatory syndrome.

Wada N, Noguchi T, Aoki T, Tajima T.

BMJ Case Rep. 2017 Jul 6;2017. pii: bcr-2017-219860. doi: 10.1136/bcr-2017-219860.

Insulin resistance among obese middle-aged is associated with decreased cerebrovascular reactivity.

Frosch OH, Yau PL, Osorio RS, Rusinek H, Storey P, Convit A.

Neurology. 2017 Jul 18;89(3):249-255. doi: 10.1212/WNL.0000000000004110. Epub 2017 Jun 14.

Functional Imaging / BOLD

new

Non-BOLD contrast for laminar fMRI in humans: CBF, CBV, and CMR₀₂.

Huber L, Uludağ K, Möller HE.

Neuroimage. 2017 Jul 20. pii: S1053-8119(17)30609-2. doi: 10.1016/j.neuroimage.2017.07.041. [Epub ahead of print] Review.

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Neuropsychopharmacology. 2017 Jul 20. doi: 10.1038/npp.2017.154. [Epub ahead of print]

new

Resisting Sleep Pressure: Impact on Resting State Functional Network Connectivity.

Tüshaus L, Balsters JH, Schläpfer A, Brandeis D, O'Gorman Tuura R, Achermann P.

Brain Topogr. 2017 Jul 15. doi: 10.1007/s10548-017-0575-x. [Epub ahead of print]

new

Enhanced task-related brain activation and resting perfusion in healthy older adults after chronic blueberry supplementation.

Bowtell JL, Aboo-Bakkar Z, Conway ME, Adlam AR, Fulford J.
Appl Physiol Nutr Metab. 2017 Jul;42(7):773-779. doi: 10.1139/apnm-2016-0550. Epub 2017 Mar 1.

[Free Article](#)

On the importance of modeling fMRI transients when estimating effective connectivity: A dynamic causal modeling study using ASL data.

Havlicek M, Roebroeck A, Friston KJ, Gardumi A, Ivanov D, Uludag K.
Neuroimage. 2017 Jul 15;155:217-233. doi: 10.1016/j.neuroimage.2017.03.017. Epub 2017 Mar 18.

Monitoring cardiac and respiratory physiology during FMRI.

Bulte D, Wartolowska K.
Neuroimage. 2017 Jul 1;154:81-91. doi: 10.1016/j.neuroimage.2016.12.001. Epub 2016 Dec 2.

Effects of reduced oxygen availability on the vascular response and oxygen consumption of the activated human visual cortex.

Rodrigues Barreto F, Mangia S, Garrido Salmon CE.
J Magn Reson Imaging. 2017 Jul;46(1):142-149. doi: 10.1002/jmri.25537. Epub 2016 Nov 3.

Physiological Parameters besides CBF

Insulin resistance among obese middle-aged is associated with decreased cerebrovascular reactivity.

Frosch OH, Yau PL, Osorio RS, Rusinek H, Storey P, Convit A.
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ASL for Angiography

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Fast acceleration of ASL-based time-resolved magnetic resonance angiography by acquisition of control and labeled images in the same shot (fast ACTRESS): An optimization study.

Sugimori H, Fujima N, Suzuki Y, Hamaguchi H, Ishizaka K, Kudo K.
Magn Reson Imaging. 2017 Jul 25. pii: S0730-725X(17)30151-0. doi:
10.1016/j.mri.2017.07.026. [Epub ahead of print]

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Noncontrast Hybrid Arterial Spin-Labeled Imaging of the Intracranial Arteries.

Lim RP, Trajcevska E, Al Rawi F, Gooneratne D, Ang W, Perchyonok Y, Fitt G, Kemp A, Giri S, Piccini D, Brodtmann A, Dewey H, Koktzoglou I.
J Comput Assist Tomogr. 2017 Jul 13. doi: 10.1097/RCT.0000000000000633. [Epub ahead of print]

Proximal Bright Vessel Sign on Arterial Spin Labeling Magnetic Resonance Imaging in Acute Cardioembolic Cerebral Infarction.

Kato A, Shinohara Y, Kuya K, Sakamoto M, Kowa H, Ogawa T.
J Stroke Cerebrovasc Dis. 2017 Jul;26(7):1457-1461. doi:
10.1016/j.jstrokecerebrovasdis.2017.03.015. Epub 2017 Apr 3.

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[Simultaneous measurement of brain perfusion and labeling efficiency in a single pseudo-continuous arterial spin labeling scan.](#)

Chen Z, Zhao X, Zhang X, Guo R, Teeuwisse WM, Zhang B, Koken P, Smink J, Yuan C, van Osch MJP.

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Neuroimage. 2017 Jul 15;155:217-233. doi: 10.1016/j.neuroimage.2017.03.017. Epub 2017 Mar 18.

[Noise concerns and post-processing procedures in cerebral blood flow \(CBF\) and cerebral blood volume \(CBV\) functional magnetic resonance imaging.](#)

Donahue MJ, Juttukonda MR, Watchmaker JM.

Neuroimage. 2017 Jul 1;154:43-58. doi: 10.1016/j.neuroimage.2016.09.007. Epub 2016 Sep 11.

Technical Improvement / Parameter Optimization

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new

[Measuring Cerebral Hypoperfusion Induced by Hyperventilation Challenge With Intravoxel Incoherent Motion Magnetic Resonance Imaging in Healthy Volunteers.](#)

Pavilla A, Arrigo A, Mejdoubi M, Duvauferrier R, Gambarota G, Saint-Jalmes H.
J Comput Assist Tomogr. 2017 Jul 13. doi: 10.1097/RCT.0000000000000640. [Epub ahead of print]

new

[Assessment of hypertensive cerebrovascular alterations with multiband Look-Locker arterial spin labeling.](#)

Lee Y, Kim T.
J Magn Reson Imaging. 2017 Jul 10. doi: 10.1002/jmri.25812. [Epub ahead of print]

new

[Enhancement of automated blood flow estimates \(ENABLE\) from arterial spin-labeled MRI.](#)

Shirzadi Z, Stefanovic B, Chappell MA, Ramirez J, Schwindt G, Masellis M, Black SE, MacIntosh BJ.
J Magn Reson Imaging. 2017 Jul 6. doi: 10.1002/jmri.25807. [Epub ahead of print]

new

[Measurement of the distribution of ventilation-perfusion ratios in the human lung with proton MRI: comparison with the multiple inert-gas elimination technique.](#)

Sá RC, Henderson AC, Simonson T, Arai TJ, Wagner H, Theilmann RJ, Wagner PD, Prisk GK, Hopkins SR.
J Appl Physiol (1985). 2017 Jul 1;123(1):136-146. doi: 10.1152/jappphysiol.00804.2016. Epub 2017 Mar 9.

Screening / Prognosis / Prevention

new

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Lehman LL, Danehy AR, Trenor CC 3rd, Calahan CF, Bernson-Leung ME, Robertson RL, Rivkin MJ.

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ASL at Field Strength > 3T

[Optimization of simultaneous multislice EPI for concurrent functional perfusion and BOLD signal measurements at 7T.](#)

Ivanov D, Poser BA, Huber L, Pfeuffer J, Uludağ K.

Magn Reson Med. 2017 Jul;78(1):121-129. doi: 10.1002/mrm.26351. Epub 2016 Jul 28.

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AJNR Am J Neuroradiol. 2017 Jul 13. doi: 10.3174/ajnr.A5296. [Epub ahead of print]

[Arterial spin-labeling perfusion imaging of children with subdural hemorrhage: Perfusion abnormalities in abusive head trauma.](#)

Wong AM, Yeh CH, Liu HL, Wu TW, Lin KL, Wang HS, Toh CH.

J Neuroradiol. 2017 Jul;44(4):281-287. doi: 10.1016/j.neurad.2017.02.003. Epub 2017 Mar 22.

Review Paper / Historical Review / Guidelines

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[Imaging and fluid biomarkers in frontotemporal dementia.](#)

Meeter LH, Kaat LD, Rohrer JD, van Swieten JC.

Nat Rev Neurol. 2017 Jul;13(7):406-419. doi: 10.1038/nrneurol.2017.75. Epub 2017 Jun 16. Review.

[Functional neuroimaging findings in healthy middle-aged adults at risk of Alzheimer's disease.](#)

Habib M, Mak E, Gabel S, Su L, Williams G, Waldman A, Wells K, Ritchie K, Ritchie C, O'Brien JT.

Ageing Res Rev. 2017 Jul;36:88-104. doi: 10.1016/j.arr.2017.03.004. Epub 2017 Mar 22. Rev.

Job Offerings & Featured Articles

- If you have any vacancies please send them to jobsATasl-network.org
- If you would like to write a comment on an interesting article mail it to editorATasl-network.org