

Dear Colleagues,

sorry for being a little late this months – please find attached the ASL Newsletter No. 74. Those who would like to visually recap the ASL Network Dinner can find some impressions in the gallery on asl-network.org.

Hope to see some of you at the perfusion workshop in Bremen!
Best regards,

Klaus



Recent publications May 2017, (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

Quantifying the area-at-risk of myocardial infarction in-vivo using arterial spin labeling cardiac magnetic resonance.

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[Free PMC Article](#)

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Multiple boli arterial spin labeling for high signal-to-noise rodent brain perfusion imaging.

Vallatos A, Gilmour L, Chalmers AJ, Holmes WM.

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Acad Radiol. 2017 May 8. pii: S1076-6332(17)30178-2. doi: 10.1016/j.acra.2017.04.001. [Epub ahead of print]

new

Poststroke Sonic Hedgehog Agonist Treatment Improves Functional Recovery by Enhancing Neurogenesis and Angiogenesis.

Jin Y, Barnett A, Zhang Y, Yu X, Luo Y.

Stroke. 2017 Jun;48(6):1636-1645. doi: 10.1161/STROKEAHA.117.016650. Epub 2017 May 9.

Pharmacological / Drug Studies / Studies on the Effects of Therapies

new

[Gamma-Hydroxybutyrate Increases Resting State Limbic Perfusion and Body and Emotion Awareness in Humans.](#)

Bosch OG, Esposito F, Havranek MM, Dornbierer D, von Rotz R, Staempfli P, Quednow BB, Seifritz E.

Neuropsychopharmacology. 2017 May 31. doi: 10.1038/npp.2017.110. [Epub ahead of print]

new

[Effects of aripiprazole versus risperidone on brain activation during planning and social-emotional evaluation schizophrenia: A single-blind randomized exploratory study.](#)

Liemburg EJ, van Es F, Knegtering H, Aleman A.

Prog Neuropsychopharmacol Biol Psychiatry. 2017 May 27. pii: S0278-5846(17)30160-4. doi: 10.1016/j.pnpbp.2017.05.022. [Epub ahead of print]

new

[Perfusion by Arterial Spin labelling following Single dose Tadalafil In Small vessel disease \(PASTIS\): study protocol for a randomised controlled trial.](#)

Pauls MMH, Clarke N, Trippier S, Betteridge S, Howe FA, Khan U, Kruuse C, Madigan JB, Moynihan B, Pereira AC, Rolfe D, Rostrup E, Haig CE, Barrick TR, Isaacs JD, Hainsworth AH. Trials. 2017 May 22;18(1):229. doi: 10.1186/s13063-017-1973-9.

[Free PMC Article](#)

new

[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 May 11. pii: S0924-977X(17)30211-0. doi: 10.1016/j.euroneuro.2017.04.002. [Epub ahead of print]

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Adinoff B, Harris TS, Gu H, Stein EA.

Addict Biol. 2017 May;22(3):857-863. doi: 10.1111/adb.12361. Epub 2016 Jan 11.

Cerebral Blood Flow Studies

CBF Regional Comparison / Regional ASL

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Nie S, Peng DC, Gong HH, Li HJ, Chen LT, Ye CL.

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Studies on Special Disease

new

[In child and adult migraineurs the somatosensory cortex stands out ... again: An arterial spin labeling investigation.](#)

Youssef AM, Ludwick A, Wilcox SL, Lebel A, Peng K, Colon E, Danehy A, Burstein R, Becerra L, Borsook D.

Hum Brain Mapp. 2017 May 31. doi: 10.1002/hbm.23649. [Epub ahead of print]

new

[Reduced regional cerebral blood flow in patients with heart failure.](#)

Roy B, Woo MA, Wang DJJ, Fonarow GC, Harper RM, Kumar R.

Eur J Heart Fail. 2017 May 30. doi: 10.1002/ejhf.874. [Epub ahead of print]

new

[Application of calibrated fMRI in Alzheimer's disease.](#)

Lajoie I, Nugent S, Debacker C, Dyson K, Tancredi FB, Badhwar A, Belleville S, Deschaintre Y, Bellec P, Doyon J, Bocti C, Gauthier S, Arnold D, Kergoat MJ, Chertkow H, Monchi O, Hoge RD.

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new

Arterial Spin-Labeled MR Imaging Detecting Biphasic Neurovascular Changes in Migraine With Persistent Aura.

Burns R, De Malherbe M, Chadenat ML, Pico F, Buch D.

Headache. 2017 May 19. doi: 10.1111/head.13119. [Epub ahead of print] No abstract available.

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Perfusion by Arterial Spin labelling following Single dose Tadalafil In Small vessel disease (PASTIS): study protocol for a randomised controlled trial.

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Zhu J, Zhuo C, Xu L, Liu F, Qin W, Yu C.

Schizophr Bull. 2017 May 17. doi: 10.1093/schbul/sbx051. [Epub ahead of print]

new

Systemic inflammation and alterations to cerebral blood flow in obstructive sleep apnea.

Chen HL, Lin HC, Lu CH, Chen PC, Huang CC, Chou KH, Su MC, Friedman M, Chen YW, Lin WC.

J Sleep Res. 2017 May 17. doi: 10.1111/jsr.12553. [Epub ahead of print]

new

Voxel-wise correlations between cognition and cerebral blood flow using arterial spin-labeled perfusion MRI in patients with Alzheimer's disease: a cross-sectional study.

Kaneta T, Katsuse O, Hirano T, Ogawa M, Shihikura-Hino A, Yoshida K, Odawara T, Hirayasu Y, Inoue T.

BMC Neurol. 2017 May 15;17(1):91. doi: 10.1186/s12883-017-0870-x.

[Free PMC Article](#)

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Eur Neuropsychopharmacol. 2017 May 11. pii: S0924-977X(17)30211-0. doi: 10.1016/j.euroneuro.2017.04.002. [Epub ahead of print]

new

Alterations of cerebral perfusion in asymptomatic internal carotid artery steno-occlusive disease.

Chen YF, Tang SC, Wu WC, Kao HL, Kuo YS, Yang SC.

Sci Rep. 2017 May 12;7(1):1841. doi: 10.1038/s41598-017-02094-4.

[Free PMC Article](#)

new

Glioma Grading and Determination of IDH Mutation Status and ATRX loss by DCE and ASL Perfusion.

Brendle C, Hempel JM, Schittenhelm J, Skardelly M, Tabatabai G, Bender B, Ernemann U, Klose U.

Clin Neuroradiol. 2017 May 9. doi: 10.1007/s00062-017-0590-z. [Epub ahead of print]

new

Early hypoperfusion on arterial spin labeling may be a diagnostic marker for acute encephalopathy with biphasic seizures and late reduced diffusion.

Yokoyama H, Baba S, Oyama J, Moriyama K, Morio T.

Brain Dev. 2017 May 3. pii: S0387-7604(17)30115-8. doi: 10.1016/j.braindev.2017.04.009.

[Epub ahead of print] No abstract available.

new

Crossed Cerebellar and Contralateral Thalamic Hyperperfusion in Epilepsy.

Takane Y, Shibata K, Nishimura Y, Sakura H.

Intern Med. 2017;56(9):1121-1122. doi: 10.2169/internalmedicine.56.7632. Epub 2017 May 1.

No abstract available.

Arterial spin labelling detects posterior cortical hypoperfusion in non-demented patients with Parkinson's disease.

Syrimi ZJ, Vojtisek L, Eliasova I, Viskova J, Svatkova A, Vanicek J, Rektorova I.

J Neural Transm (Vienna). 2017 May;124(5):551-557. doi: 10.1007/s00702-017-1703-1. Epub 2017 Mar 7.

Resting cerebral blood flow alteration in severe obstructive sleep apnoea: an arterial spin labelling perfusion fMRI study.

Nie S, Peng DC, Gong HH, Li HJ, Chen LT, Ye CL.

Sleep Breath. 2017 May;21(2):487-495. doi: 10.1007/s11325-017-1474-9. Epub 2017 Feb 16.

Lower cerebral blood flow is associated with impairment in multiple cognitive domains in Alzheimer's disease.

Leeuwis AE, Benedictus MR, Kuijer JPA, Binnewijzend MAA, Hooghiemstra AM, Verfaillie SCJ, Koene T, Scheltens P, Barkhof F, Prins ND, van der Flier WM.

Alzheimers Dement. 2017 May;13(5):531-540. doi: 10.1016/j.jalz.2016.08.013. Epub 2016 Sep 28.

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

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[Application of calibrated fMRI in Alzheimer's disease.](#)

Lajoie I, Nugent S, Debacker C, Dyson K, Tancredi FB, Badhwar A, Belleville S, Deschaintre Y, Bellec P, Doyon J, Bocti C, Gauthier S, Arnold D, Kergoat MJ, Chertkow H, Monchi O, Hoge RD.

Neuroimage Clin. 2017 May 16;15:348-358. doi: 10.1016/j.nicl.2017.05.009. eCollection 2017

new

[Qualitative agreement and diagnostic performance of arterial spin labelling MRI and FDG PET-CT in suspected early-stage dementia: Comparison of arterial spin labelling MRI and FDG PET-CT in suspected dementia.](#)

Weyts K, Vernooij M, Steketee R, Valkema R, Smits M.

Clin Imaging. 2017 May 19;45:1-7. doi: 10.1016/j.clinimag.2017.05.008. [Epub ahead of print]

new

[Resting state hypothalamic response to glucose predicts glucose-induced attenuation in the ventral striatal response to food cues.](#)

Luo S, Melrose AJ, Dorton H, Alves J, Monterosso JR, Page KA.

Appetite. 2017 May 24. pii: S0195-6663(17)30085-5. doi: 10.1016/j.appet.2017.05.038. [Epub ahead of print]

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new

Comparison of arterial spin labeling registration strategies in the multi-center GENetic frontotemporal dementia initiative (GENFI).

Mutsaerts HJMM, Petr J, Thomas DL, Vita E, Cash DM, Osch MJPV, Golay X, Groot PFC, Ourselin S, Swieten JV, Laforce R Jr, Tagliavini F, Borroni B, Galimberti D, Rowe JB, Graff C, Pizzini FB, Finger E, Sorbi S, Castelo Branco M, Rohrer JD, Masellis M, MacIntosh BJ; GENFI investigators..

J Magn Reson Imaging. 2017 May 8. doi: 10.1002/jmri.25751. [Epub ahead of print]

Cerebral metabolic rate of oxygen (CMRO₂) mapping with hyperventilation challenge using quantitative susceptibility mapping (QSM).

Zhang J, Zhou D, Nguyen TD, Spincemaille P, Gupta A, Wang Y.

Magn Reson Med. 2017 May;77(5):1762-1773. doi: 10.1002/mrm.26253. Epub 2016 Apr 27.

Functional Imaging / BOLD

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Sci Rep. 2017 May 23;7(1):2271. doi: 10.1038/s41598-017-02544-z.

[Free PMC Article](#)

Physiological Parameters besides CBF

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new

Functional brain connectivity of remembered fatigue or happiness in healthy adults: Use of arterial spin labeling.

Boissoneault J, Sevel L, Robinson ME, Staud R.

J Clin Exp Neuropsychol. 2017 May 29;1-10. doi: 10.1080/13803395.2017.1329407. [Epub ahead of print]

ASL for Angiography

Acceleration-selective arterial spin labeling for intracranial MR angiography with improved visualization of cortical arteries and suppression of cortical veins.

Obara M, Togao O, Yoneyama M, Okuaki T, Shibukawa S, Honda H, Van Cauteren M.

Magn Reson Med. 2017 May;77(5):1996-2004. doi: 10.1002/mrm.26275. Epub 2016 Jul 15.

ASL in Kidneys

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[Spatio-temporal TGV denoising for ASL perfusion imaging.](#)

Spann SM, Kazimierski KS, Aigner CS, Kraiger M, Bredies K, Stollberger R. Neuroimage. 2017 May 27. pii: S1053-8119(17)30453-6. doi: 10.1016/j.neuroimage.2017.05.054. [Epub ahead of print]

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[Measuring the labeling efficiency of pseudocontinuous arterial spin labeling.](#)

Chen Z, Zhang X, Yuan C, Zhao X, van Osch MJP. Magn Reson Med. 2017 May;77(5):1841-1852. doi: 10.1002/mrm.26266. Epub 2016 May 13.

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[Accelerated noncontrast-enhanced 4-dimensional intracranial MR angiography using golden-angle stack-of-stars trajectory and compressed sensing with magnitude subtraction.](#)

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Magn Reson Med. 2017 May 7. doi: 10.1002/mrm.26747. [Epub ahead of print]

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Magn Reson Med. 2017 May;77(5):1996-2004. doi: 10.1002/mrm.26275. Epub 2016 Jul 15.

[Double-gated myocardial ASL perfusion imaging is robust to heart rate variation.](#)

Do HP, Yoon AJ, Fong MW, Saremi F, Barr ML, Nayak KS.
Magn Reson Med. 2017 May;77(5):1975-1980. doi: 10.1002/mrm.26282. Epub 2016 May 30.

ASL at Field Strength > 3T

new

[Comparison of 3T and 7T ASL techniques for concurrent functional perfusion and BOLD studies.](#)

Ivanov D, Gardumi A, Haast RAM, Pfeuffer J, Poser BA, Uludağ K.
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Magn Reson Med. 2017 May 9. doi: 10.1002/mrm.26742. [Epub ahead of print]

Case Reports

new

[A Case Report of Transient Cortical Blindness After Angiography.](#)

Chen CY, Chen CJ, Tseng YC.

Neurologist. 2017 May;22(3):82-84. doi: 10.1097/NRL.000000000000115.

Cohort Studies / Gender- and Age Dependencies

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[Free PMC Article](#)

Review Paper / Historical Review / Guidelines

new

[Functional Magnetic Resonance Imaging of the Kidneys-With and Without Gadolinium-Based Contrast.](#)

Zhang JL.

Adv Chronic Kidney Dis. 2017 May;24(3):162-168. doi: 10.1053/j.ackd.2017.03.006. Review.

[Intracranial Arteriovenous Shunting Detection with Arterial Spin-Labeling and Susceptibility-Weighted Imaging: Potential Pitfall of a Venous Predominant Parenchymal Arteriovenous Malformation.](#)

Nabavizadeh SA.

AJNR Am J Neuroradiol. 2017 May;38(5):E32. doi: 10.3174/ajnr.A5108. Epub 2017 Feb 23. No abstract available.

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