

Dear Colleagues,

here is the ASL Newsletter No. 75 for June 2017.

Best regards,
Klaus

Recent publications June 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

Modification to the Rice-Vannucci perinatal hypoxic-ischaemic encephalopathy model in the P7 rat improves the reliability of cerebral infarct development after 48hours.

Edwards AB, Feindel KW, Cross JL, Anderton RS, Clark VW, Knuckey NW, Meloni BP. J Neurosci Methods. 2017 Jun 23;288:62-71. doi: 10.1016/j.jneumeth.2017.06.016. [Epub ahead of print]

new

Determination of Brain-Regional Blood Perfusion and Endogenous cPKC γ Impact on Ischemic Vulnerability of Mice with Global Ischemia.

Liu S, Dai Q, Hua R, Liu T, Han S, Li S, Li J. Neurochem Res. 2017 Jun 8. doi: 10.1007/s11064-017-2294-9. [Epub ahead of print]

Pharmacological / Drug Studies / Studies on the Effects of Therapies

new

Regional cerebral blood flow in opiate dependence relates to substance use and neuropsychological performance.

Murray DE, Durazzo TC, Schmidt TP, Murray TA, Abé C, Guydish J, Meyerhoff DJ. Addict Biol. 2017 Jun 19. doi: 10.1111/adb.12523. [Epub ahead of print]

new

Mesocorticolimbic hemodynamic response in Parkinson's disease patients with compulsive behaviors.

Claassen DO, Stark AJ, Spears CA, Petersen KJ, van Wouwe NC, Kessler RM, Zald DH, Donahue MJ. Mov Disord. 2017 Jun 19. doi: 10.1002/mds.27047. [Epub ahead of print]

new

Interpulse phase corrections for unbalanced pseudo-continuous arterial spin labeling at high magnetic field.

Hirschler L, Debacker CS, Voiron J, Köhler S, Warnking JM, Barbier EL. Magn Reson Med. 2017 Jun 6. doi: 10.1002/mrm.26767. [Epub ahead of print]

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.

Cerebral Blood Flow Studies

CBF Regional Comparison / Regional ASL

new

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Murray DE, Durazzo TC, Schmidt TP, Murray TA, Abé C, Guydish J, Meyerhoff DJ. Addict Biol. 2017 Jun 19. doi: 10.1111/adb.12523. [Epub ahead of print]

[Perioperative Changes in Cerebral Perfusion Territories Assessed by Arterial Spin Labeling Magnetic Resonance Imaging Are Associated with Postoperative Increases in Cerebral Blood Flow in Patients with Carotid Stenosis.](#)

Yamamoto D, Hosoda K, Uchihashi Y, Fujita A, Sasayama T, Fujii M, Sugimura K, Kohta M, Kohmura E.

World Neurosurg. 2017 Jun;102:477-486. doi: 10.1016/j.wneu.2017.03.037. Epub 2017 Mar 18.

Studies on Special Disease

new

[Better Correlation of Cognitive Function to White Matter Integrity than to Blood Supply in Subjects with Leukoaraiosis.](#)

Zhong G, Zhang R, Jiaerken Y, Yu X, Zhou Y, Liu C, Lin L, Tong L, Lou M.

Front Aging Neurosci. 2017 Jun 12;9:185. doi: 10.3389/fnagi.2017.00185. eCollection 2017.

[Free Article](#)

new

[\[Application value of whole brain 3D artery spin labeling in diagnosis of intracranial tumors\].](#)

Zhao QQ, Yang QX, Xu GX, Lü YC, Rong DL, Liu L, Zhang R.

Zhonghua Yi Xue Za Zhi. 2017 Jun 20;97(23):1801-1804. doi: 10.3760/cma.j.issn.0376-2491.2017.23.009. Chinese.

new

[Autonomic Function Impairment and Brain Perfusion Deficit in Parkinson's Disease.](#)

Lin WC, Chen PC, Huang CC, Tsai NW, Chen HL, Wang HC, Chou KH, Chen MH, Chen YW, Lu CH.

Front Neurol. 2017 Jun 8;8:246. doi: 10.3389/fneur.2017.00246. eCollection 2017.

[Free PMC Article](#)

new

[Cerebral Blood Flow and Amyloid- \$\beta\$ Interact to Affect Memory Performance in Cognitively Normal Older Adults.](#)

Bangen KJ, Clark AL, Edmonds EC, Evangelista ND, Werhane ML, Thomas KR, Locano LE, Tran M, Zlatar ZZ, Nation DA, Bondi MW, Delano-Wood L.

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[Free PMC Article](#)

new

Early-phase 18F-AV-45 PET imaging can detect crossed cerebellar diaschisis following carotid artery stenosis and cerebral hypoperfusion.

Lee TH, Huang KL, Chang TY, Ho MY, Wey SP, Hsieh CJ, Yen TC, Lin KJ, Hsiao IT. Curr Neurovasc Res. 2017 Jun 21. doi: 10.2174/1567202614666170621102101. [Epub ahead of print]

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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 Jun 14. pii: 10.1212/WNL.0000000000004110. doi: 10.1212/WNL.0000000000004110. [Epub ahead of print]

new

Perfusion MR Imaging Using a 3D Pulsed Continuous Arterial Spin-Labeling Method for Acute Cerebral Infarction Classified as Branch Atheromatous Disease Involving the Lenticulostriate Artery Territory.

Shinohara Y, Kato A, Kuya K, Okuda K, Sakamoto M, Kowa H, Ogawa T. AJNR Am J Neuroradiol. 2017 Jun 8. doi: 10.3174/ajnr.A5247. [Epub ahead of print]

new

Three-dimensional arterial spin labeling imaging and dynamic susceptibility contrast perfusion-weighted imaging value in diagnosing glioma grade prior to surgery.

Ma H, Wang Z, Xu K, Shao Z, Yang C, Xu P, Liu X, Hu C, Lu X, Rong Y. Exp Ther Med. 2017 Jun;13(6):2691-2698. doi: 10.3892/etm.2017.4370. Epub 2017 Apr 20. [Free PMC Article](#)

new

Diffusion tensor imaging tractography and MRI perfusion in post traumatic brain injury hypersomnia.

Puligheddu M, Laccu I, Gioi G, Congiu P, Figorilli M, Peltz MT. Sleep Med. 2017 Jun;34:96-98. doi: 10.1016/j.sleep.2017.03.011. Epub 2017 Mar 30. No abstract available.

new

Arterial Spin Labeling Hypoperfusion in Migraine Aura.

Law-Ye B, Fargeot G, Leclercq D. Headache. 2017 Jun;57(6):935-936. doi: 10.1111/head.13072. Epub 2017 Mar 31. No abstract available.

[Intra-arterial high signals on arterial spin labeling perfusion images predict the occluded internal carotid artery segment.](#)

Sogabe S, Satomi J, Tada Y, Kanematsu Y, Kuwayama K, Yagi K, Yoshioka S, Mizobuchi Y, Mure H, Yamaguchi I, Abe T, Yamamoto N, Kitazato KT, Kaji R, Harada M, Nagahiro S. *Neuroradiology*. 2017 Jun;59(6):587-595. doi: 10.1007/s00234-017-1828-9. Epub 2017 Apr 10.

[Cerebral blood flow laterality derived from arterial spin labeling as a biomarker for assessing the disease severity of parkinson's disease.](#)

Yamashita K, Hiwatashi A, Togao O, Kikuchi K, Yamaguchi H, Suzuki Y, Kamei R, Yamasaki R, Kira JI, Honda H. *J Magn Reson Imaging*. 2017 Jun;45(6):1821-1826. doi: 10.1002/jmri.25489. Epub 2016 Oct 3

[Structural Correlation-based Outlier Rejection \(SCORE\) algorithm for arterial spin labeling time series.](#)

Dolui S, Wang Z, Shinohara RT, Wolk DA, Detre JA; Alzheimer's Disease Neuroimaging Initiative. *J Magn Reson Imaging*. 2017 Jun;45(6):1786-1797. doi: 10.1002/jmri.25436. Epub 2016 Aug 29.

[Insulin resistance is associated with lower arterial blood flow and reduced cortical perfusion in cognitively asymptomatic middle-aged adults.](#)

Hoscheidt SM, Kellawan JM, Berman SE, Rivera-Rivera LA, Krause RA, Oh JM, Beeri MS, Rowley HA, Wieben O, Carlsson CM, Asthana S, Johnson SC, Schrage WG, Bendlin BB. *J Cereb Blood Flow Metab*. 2017 Jun;37(6):2249-2261. doi: 10.1177/0271678X16663214. Epub 2016 Jan 1.

[Cerebral blood flow response to hypoglycemia is altered in patients with type 1 diabetes and impaired awareness of hypoglycemia.](#)

Wiegers EC, Becker KM, Rooijackers HM, von Samson-Himmelstjerna FC, Tack CJ, Heerschap A, de Galan BE, van der Graaf M. *J Cereb Blood Flow Metab*. 2017 Jun;37(6):1994-2001. doi: 10.1177/0271678X16658914. Epub 2016 Jan 1.

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

new

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new

Brain Tissue Pulsatility is Increased in Mid-Life Depression: A Comparative Study using Ultrasound Tissue Pulsatility Imaging.

Desmidt T, Brizard B, Dujardin PA, Ternifi R, Réménéieras JP, Patat F, Andersson F, Cottier JP, Vierron E, Gissot V, Kim K, Aizenstein H, El-Hage W, Camus V. Neuropsychopharmacology. 2017 Jun 6. doi: 10.1038/npp.2017.113. [Epub ahead of print]

new

Imaging pain relief in osteoarthritis (IPRO): protocol of a double-blind randomised controlled mechanistic study assessing pain relief and prediction of duloxetine treatment outcome.

Reckziegel D, Bailey H, Cottam WJ, Tench CR, Mahajan RP, Walsh DA, Knaggs RD, Auer DP. BMJ Open. 2017 Jun 26;7(6):e014013. doi: 10.1136/bmjopen-2016-014013. [Free Article](#)

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Diffusion tensor imaging tractography and MRI perfusion in post traumatic brain injury hypersomnia.

Puligheddu M, Laccu I, Gioi G, Congiu P, Figorilli M, Peltz MT. Sleep Med. 2017 Jun;34:96-98. doi: 10.1016/j.sleep.2017.03.011. Epub 2017 Mar 30. No abstract available.

new

Head-to-Head Visual Comparison between Brain Perfusion SPECT and Arterial Spin-Labeling MRI with Different Postlabeling Delays in Alzheimer Disease.

Kaneta T, Katsuse O, Hirano T, Ogawa W, Yoshida K, Odawara T, Hirayasu Y, Inoue T. AJNR Am J Neuroradiol. 2017 Jun 1. doi: 10.3174/ajnr.A5238. [Epub ahead of print]

MRI of cerebral micro-vascular flow patterns: A multi-direction diffusion-weighted ASL approach.

Wells JA, Thomas DL, Saga T, Kershaw J, Aoki I. J Cereb Blood Flow Metab. 2017 Jun;37(6):2076-2083. doi: 10.1177/0271678X16660985. Epub 2016 Jan 1.

A linear mixed perfusion model for tissue partial volume correction of perfusion estimates in dynamic susceptibility contrast MRI: Impact on absolute quantification, repeatability, and agreement with pseudo-continuous arterial spin labeling.

Ahlgren A, Wirestam R, Lind E, Ståhlberg F, Knutsson L.

Magn Reson Med. 2017 Jun;77(6):2203-2214. doi: 10.1002/mrm.26305. Epub 2016 Jun 20.

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[Free Article](#)

Others CBF Related

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J Magn Reson Imaging. 2017 Jun;45(6):1786-1797. doi: 10.1002/jmri.25436. Epub 2016 Aug 29.

Physiological Parameters besides CBF

new

Changes in arterial cerebral blood volume during lower body negative pressure measured with MRI.

Whittaker JR, Bright MG, Driver ID, Babic A, Khot S, Murphy K.

Neuroimage. 2017 Jun 28. pii: S1053-8119(17)30513-X. doi: 10.1016/j.neuroimage.2017.06.041. [Epub ahead of print] Review.

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

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Neurology. 2017 Jun 14. pii: 10.1212/WNL.0000000000004110. doi: 10.1212/WNL.0000000000004110. [Epub ahead of print]

ASL for Angiography

Planning-free cerebral blood flow territory mapping in patients with intracranial arterial stenosis.

Arteaga DF, Strother MK, Davis LT, Fusco MR, Faraco CC, Roach BA, Scott AO, Donahue MJ.

J Cereb Blood Flow Metab. 2017 Jun;37(6):1944-1958. doi: 10.1177/0271678X16657573. Epub 2016 Jan 1.

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2016 Jan 1.

Technical Improvement / Parameter Optimization

new

[Characterization of pseudo-continuous arterial spin labeling: Simulations and experimental validation.](#)

Lorenz K, Mildner T, Schlumm T, Möller HE.

Magn Reson Med. 2017 Jun 26. doi: 10.1002/mrm.26805. [Epub ahead of print]

new

[Temporal and Spatial Variances in Arterial Spin-Labeling Are Inversely Related to Large-Artery Blood Velocity.](#)

Robertson AD, Matta G, Basile VS, Black SE, Macgowan CK, Detre JA, MacIntosh BJ.

AJNR Am J Neuroradiol. 2017 Jun 15. doi: 10.3174/ajnr.A5257. [Epub ahead of print]

new

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Hirschler L, Debacker CS, Voiron J, Köhler S, Warnking JM, Barbier EL.

Magn Reson Med. 2017 Jun 6. doi: 10.1002/mrm.26767. [Epub ahead of print]

[Prospective motion correction for 3D pseudo-continuous arterial spin labeling using an external optical tracking system.](#)

Aksoy M, Maclaren J, Bammer R.

Magn Reson Imaging. 2017 Jun;39:44-52. doi: 10.1016/j.mri.2017.01.018. Epub 2017 Jan 27.

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Screening / Prognosis / Prevention

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Abi Zeid Daou M, Boyd BD, Donahue MJ, Albert K, Taylor WD.

J Affect Disord. 2017 Jun;215:103-110. doi: 10.1016/j.jad.2017.03.027. Epub 2017 Mar 16.

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Case Reports

new

[Acute intermittent porphyria presenting as posterior reversible encephalopathy syndrome with hyperperfusion in bilateral occipital lobes: A case report.](#)

Sakashita Y, Hamada T, Machiya T, Yamada M.
J Neurol Sci. 2017 Jun 15;377:47-49. doi: 10.1016/j.jns.2017.03.052. Epub 2017 Mar 31. No abstract available.

Cohort Studies / Gender- and Age Dependencies

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Review Paper / Historical Review / Guidelines

new

[Changes in arterial cerebral blood volume during lower body negative pressure measured with MRI.](#)

Whittaker JR, Bright MG, Driver ID, Babic A, Khot S, Murphy K.

Neuroimage. 2017 Jun 28. pii: S1053-8119(17)30513-X. doi: 10.1016/j.neuroimage.2017.06.041.

[Epub ahead of print] Review.

new

[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.

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