

Dear ASL community,

in this ASL Newsletter No. 92, we are happy to announce the next **ASL Network Dinner** during the ISMRM Annual Meeting 2019. Save the date for Sunday, 12. May 2019. Further details will follow.

If you are a member of the ISMRM Perfusion Study Group, check your e-mails and remember to vote your candidate for the **ISMRM Perfusion MR Study Group Committee Members** by 28. February 2018: <https://www.ismrm.org/study-groups/perfusion-mr/>

Kind regards,  
Klaus

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## 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.

# **Publications in January 2019**

## **Cerebral Blood Flow Studies**

### **CBF Regional Comparison / Regional ASL**

*new*

#### **Sensorineural hearing loss and cognitive impairments: Contributions of thalamus using multiparametric MRI.**

Xu XM, Jiao Y, Tang TY, Zhang J, Lu CQ, Salvi R, Teng GJ.  
J Magn Reson Imaging. 2019 Jan 29. doi: 10.1002/jmri.26665. [Epub ahead of print]

*new*

#### **Regional cerebral hypoperfusion after acute sleep deprivation: A STROBE-compliant study of arterial spin labeling fMRI.**

Zhou F, Huang M, Gu L, Hong S, Jiang J, Zeng X, Gong H.  
Medicine (Baltimore). 2019 Jan;98(2):e14008. doi: 10.1097/MD.00000000000014008.  
[Free PMC Article](#)

## **Studies on Special Disease**

*new*

#### **White Matter Has Impaired Resting Oxygen Delivery in Sickle Cell Patients.**

Chai Y, Bush AM, Coloigner J, Nederveen AJ, Tamrazi B, Vu C, Choi S, Coates TD, Lepore N, Wood JC.  
Am J Hematol. 2019 Jan 29. doi: 10.1002/ajh.25423. [Epub ahead of print]

*new*

#### **Placebo aiTBS attenuates suicidal ideation and frontopolar cortical perfusion in major depression.**

Baeken C, Wu GR, van Heeringen K.  
Transl Psychiatry. 2019 Jan 29;9(1):38. doi: 10.1038/s41398-019-0377-x.

*new*

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J Magn Reson Imaging. 2019 Jan 29. doi: 10.1002/jmri.26665. [Epub ahead of print]

*new*

#### **Effects of Cerebral Blood Flow and White Matter Integrity on Cognition in CADASIL Patients.**

Yin X, Zhou Y, Yan S, Lou M.  
Front Psychiatry. 2019 Jan 14;9:741. doi: 10.3389/fpsy.2018.00741. eCollection 2018.  
[Free Article](#)

*new*

**Precuneus Dysfunction in Parkinson's Disease With Mild Cognitive Impairment.**

Jia X, Li Y, Li K, Liang P, Fu X.

Front Aging Neurosci. 2019 Jan 10;10:427. doi: 10.3389/fnagi.2018.00427. eCollection 2018.

[Free PMC Article](#)

*new*

**Regression analysis of cerebral blood perfusion and cognitive function in patients with mild cognitive impairment and Alzheimer's disease.**

Xu Y, Chen LL, Su Y, Sun SN, Zhang HY.

Zhonghua Yi Xue Za Zhi. 2019 Jan 15;99(3):193-197. doi: 10.3760/cma.j.issn.0376-2491.2019.03.008. Chinese.

*new*

**Magnetic resonance imaging of cerebral small vessel disease in men living with HIV and HIV negative men aged 50 and above.**

Haddow L, Sudre CH, Sokolska M, Gilson RC, Williams I, Golay X, Ourselin S, Winston A, Sabin CA, Cardoso J, Jäger R.

AIDS Res Hum Retroviruses. 2019 Jan 22. doi: 10.1089/AID.2018.0249. [Epub ahead of print]

*new*

**3D-ASL perfusion correlates with VEGF expression and overall survival in glioma patients: Comparison of quantitative perfusion and pathology on accurate spatial location-matched basis.**

Pang H, Dang X, Ren Y, Zhuang D, Qiu T, Chen H, Zhang J, Ma N, Li G, Zhang J, Wu J, Feng X.

J Magn Reson Imaging. 2019 Jan 16. doi: 10.1002/jmri.26562. [Epub ahead of print]

*new*

**Modulation of anterior cingulate cortex reward and penalty signalling in medication-naive young-adult subjects with depressive symptoms following acute dose lurasidone.**

Wolke SA, Mehta MA, O'Daly O, Zelaya F, Zahreddine N, Keren H, O'Callaghan G, Young A, Leibenluft E, Pine DS, Stringaris A.

Psychol Med. 2019 Jan 4:1-13. doi: 10.1017/S0033291718003306. [Epub ahead of print]

*new*

**Preoperative localization of the sensorimotor cortex and measurement of tumor perfusion in a single acquisition using ASL technique.**

Kim JH, Choi DS, Park SE, Choi HC, Koh EH, Kim SH.

J Clin Neurosci. 2019 Jan;59:367-371. doi: 10.1016/j.jocn.2018.10.098. Epub 2018 Nov 1.

## Functional Imaging / BOLD

*new*

**Cortical Perfusion and Tubular Function as Evaluated by Magnetic Resonance Imaging Correlates with Annual Loss in Renal Function in Moderate Chronic Kidney Disease.**

Prasad PV, Li LP, Thacker JM, Li W, Hack B, Kohn O, Sprague SM.

Am J Nephrol. 2019 Jan 22;49(2):114-124. doi: 10.1159/000496161. [Epub ahead of print]

*new*

**Coupling between cerebral blood flow and cerebral blood volume: Contributions of different vascular compartments.**

Wesolowski R, Blockley NP, Driver ID, Francis ST, Gowland PA.

NMR Biomed. 2019 Jan 18:e4061. doi: 10.1002/nbm.4061. [Epub ahead of print]

*new*

**Dual-calibrated fMRI measurement of absolute cerebral metabolic rate of oxygen consumption and effective oxygen diffusivity.**

Germuska M, Chandler HL, Stickland RC, Foster C, Fasano F, Okell TW, Steventon J, Tomassini V, Murphy K, Wise RG.

Neuroimage. 2019 Jan 1;184:717-728. doi: 10.1016/j.neuroimage.2018.09.035. Epub 2018 Sep 29.

## Others CBF Related

*new*

**Regional cerebral hypoperfusion after acute sleep deprivation: A STROBE-compliant study of arterial spin labeling fMRI.**

Zhou F, Huang M, Gu L, Hong S, Jiang J, Zeng X, Gong H.

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## **ASL Data Analysis/ Comparison of ASL Evaluation Methods/ Kinetic Models/ Data Corrections/ Postprocessing**

*new*

**3D MRI of whole-brain water permeability with intrinsic diffusivity encoding of arterial labeled spin (IDEALS).**

Wengler K, Bangiyev L, Canli T, Duong TQ, Schweitzer ME, He X.

Neuroimage. 2019 Jan 22. pii: S1053-8119(19)30035-7. doi: 10.1016/j.neuroimage.2019.01.035.

[Epub ahead of print]

*new*

**Determining the optimal postlabeling delay for arterial spin labeling using subject-specific estimates of blood velocity in the carotid artery.**

Gai ND, Butman JA.

J Magn Reson Imaging. 2019 Jan 25. doi: 10.1002/jmri.26670. [Epub ahead of print]

*new*

[3D-ASL perfusion correlates with VEGF expression and overall survival in glioma patients: Comparison of quantitative perfusion and pathology on accurate spatial location-matched basis.](#)  
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J Magn Reson Imaging. 2019 Jan 16. doi: 10.1002/jmri.26562. [Epub ahead of print]

*new*

[Patch-based super-resolution of arterial spin labeling magnetic resonance images.](#)

Meurée C, Maurel P, Ferré JC, Barillot C.

Neuroimage. 2019 Jan 10;189:85-94. doi: 10.1016/j.neuroimage.2019.01.004. [Epub ahead of print]

*new*

[Support vector machine-based multivariate pattern classification of methamphetamine dependence using arterial spin labeling.](#)

Li Y, Cui Z, Liao Q, Dong H, Zhang J, Shen W, Zhou W.

Addict Biol. 2019 Jan 9. doi: 10.1111/adb.12705. [Epub ahead of print]

## Case Reports

*new*

[Identification of non-convulsive status epilepticus with bradylalia using arterial spin-labeling magnetic resonance imaging.](#)

Yamamoto S, Mutoh T, Tatewaki Y, Tsurutani H, Watabe N, Saito H, Yasui N, Taki Y.

Acute Med Surg. 2018 Sep 23;6(1):73-77. doi: 10.1002/ams2.369. eCollection 2019 Jan.

[Free PMC Article](#)

*new*

[Cerebral hyperperfusion syndrome after a burr hole drainage surgery for chronic subdural hematoma.](#)

Omura T, Fukushima Y, Yoshikawa G, Matsushashi A, Sato D, Endo T, Sato K, Inoue M, Saito A, Tsutsumi K.

World Neurosurg. 2019 Jan 2. pii: S1878-8750(18)32923-1. doi: 10.1016/j.wneu.2018.12.100.

[Epub ahead of print]

## Cohort Studies / Gender- and Age Dependencies

*new*

[Magnetic resonance imaging of cerebral small vessel disease in men living with HIV and HIV negative men aged 50 and above.](#)

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**Arterial-spin labeling MRI identifies residual cerebral arteriovenous malformation following stereotactic radiosurgery treatment.**

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**Cerebral blood flow in children and adolescents several years after concussion.**

Brooks BL, Low TA, Plourde V, Virani S, Jadavji Z, MacMaster FP, Barlow KM, Lebel RM, Yeates KO.

Brain Inj. 2019;33(2):233-241. doi: 10.1080/02699052.2018.1540798. Epub 2018 Oct 31.

## **Pharmacological / Drug Studies / Studies on the Effects of Therapies**

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**Oxytocin modulates hippocampal perfusion in people at clinical high risk for psychosis.**

Davies C, Paloyelis Y, Rutigliano G, Cappucciati M, De Micheli A, Ramella-Cravaro V, Provenzani U, Antoniadis M, Modinos G, Oliver D, Stahl D, Murguia S, Zelaya F, Allen P, Shergill S, Morrison P, Williams S, Taylor D, McGuire P, Fusar-Poli P.

Neuropsychopharmacology. 2019 Jan 9. doi: 10.1038/s41386-018-0311-6. [Epub ahead of print]

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Psychol Med. 2019 Jan 4:1-13. doi: 10.1017/S0033291718003306. [Epub ahead of print]

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## ASL for Angiography

*new*

[Comparison of TOF-MRA and silent scan-MRA in depicting cerebral arteries in patients with Moyamoya disease.](#)

Tomura N, Kokubun M, Horiuchi K, Watanabe Z.

Acta Radiol. 2019 Jan 25:284185118824782. doi: 10.1177/0284185118824782. [Epub ahead of print]

## ASL in Kidneys

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[Multiparametric assessment of renal physiology in healthy volunteers using non-invasive magnetic resonance imaging.](#)

Eckerbom P, Hansell P, Cox EF, Buchanan C, Weis J, Palm F, Francis ST, Liss P.

Am J Physiol Renal Physiol. 2019 Jan 16. doi: 10.1152/ajprenal.00486.2018. [Epub ahead of print]

## Perfusion Studies others than on Brain

*new*

[Exercise-stimulated arterial transit time in calf muscles measured by dynamic contrast-enhanced magnetic resonance imaging.](#)

Conlin CC, Layec G, Hanrahan CJ, Hu N, Mueller MT, Lee VS, Zhang JL.

Physiol Rep. 2019 Jan;7(1):e13978. doi: 10.14814/phy2.13978.

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## Review Paper / Historical Review / Guidelines

*new*

### Hybrid PET-MRI Applications in Movement Disorders.

Tondo G, Esposito M, Dervenoulas G, Wilson H, Politis M, Pagano G.

Int Rev Neurobiol. 2019;144:211-257. doi: 10.1016/bs.irn.2018.10.003. Epub 2018 Nov 8.

*new*

### MRI as a diagnostic biomarker for differentiating primary central nervous system lymphoma from glioblastoma: A systematic review and meta-analysis.

Suh CH, Kim HS, Jung SC, Park JE, Choi CG, Kim SJ.

J Magn Reson Imaging. 2019 Jan 14. doi: 10.1002/jmri.26602. [Epub ahead of print]

## Job Offerings & Featured Articles

If you have any vacancies please send them to [jobs\[AT\]asl-network.org](mailto:jobs@asl-network.org).

If you would like to write a comment on an interesting article, present software or work of common interest, e-mail some information to [editor\[AT\]asl-network.org](mailto:editor@asl-network.org).