

Dear colleagues,

Here is the ASL Newsletter No. 89 with an update on publications in October 2018.

As your might be 'in the flow' with abstract preparations for the ISMRM, you may want to continue writing an abstract for the upcoming workshop on ASL, March 9-10, 2019 at the University of Michigan /USA ([http://fmri.research.umich.edu/events/asl\\_workshop.php](http://fmri.research.umich.edu/events/asl_workshop.php)).

Good luck & kind regards  
Klaus

## Recent publications October 2018, (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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## Cerebral Blood Flow Studies

### CBF Regional Comparison / Regional ASL

*new*

#### **Methamphetamine dependence with and without psychotic symptoms: A multi-modal brain imaging study.**

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### Studies on Special Disease

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Alzheimers Res Ther. 2018 Oct 30;10(1):112. doi: 10.1186/s13195-018-0438-z.

*new*

#### **A comparison of pseudo-continuous arterial spin labelling and dynamic susceptibility contrast MRI with and without contrast agent leakage correction in paediatric brain tumours.**

Novak J, Withey SB, Lateef S, MacPherson L, Pinkey B, Peet AC.

Br J Radiol. 2018 Oct 25:20170872. doi: 10.1259/bjr.20170872. [Epub ahead of print]

*new*

#### **Comparative study of MR mTI-ASL and DSC-PWI in evaluating cerebral hemodynamics of patients with Moyamoya disease.**

Zhang J, Xia C, Liu Y, Qian W, Peng W, Liu K, Li L, Zhao F, Li Z.

Medicine (Baltimore). 2018 Oct;97(41):e12768. doi: 10.1097/MD.00000000000012768.

[Free Article](#)

*new*

**Cerebral Blood Flow and Marrow Diffusion Alterations in Children with Sickle Cell Anemia after Bone Marrow Transplantation and Transfusion.**

Whitehead MT, Smithimedhin A, Webb J, Mahdi ES, Khademian ZP, Carpenter JL, Abraham A. AJNR Am J Neuroradiol. 2018 Oct 11. doi: 10.3174/ajnr.A5830. [Epub ahead of print]

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Cell Transplant. 2018 Oct 4:963689718802755. doi: 10.1177/0963689718802755. [Epub ahead of print]

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**Ultra-high-field arterial spin labelling MRI for non-contrast assessment of cortical lesion perfusion in multiple sclerosis.**

Dury RJ, Falah Y, Gowland PA, Evangelou N, Bright MG, Francis ST.

Eur Radiol. 2018 Oct 2. doi: 10.1007/s00330-018-5707-5. [Epub ahead of print]

*new*

**Advanced neuroimaging in Balo's concentric sclerosis: MRI, MRS, DTI, and ASL perfusion imaging over 1 year.**

Yeo CJJ, Hutton GJ, Fung SH.

Radiol Case Rep. 2018 Jun 1;13(5):1030-1035. doi: 10.1016/j.radcr.2018.04.010. eCollection 2018 Oct.

[Free PMC Article](#)

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

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Aoike S, Sugimori H, Fujima N, Suzuki Y, Shimizu Y, Suwa A, Ishizaka K, Kudo K.

Magn Reson Med Sci. 2018 Oct 12. doi: 10.2463/mrms.tn.2018-0031. [Epub ahead of print]

[Free Article](#)

*new*

[Altered neurovascular coupling in neuromyelitis optica.](#)

Guo X, Zhu J, Zhang N, Zhang L, Qi Y, Cai H, Zhang X, Sun J, Wang Q, Yang L, Shi FD, Yu C.

Hum Brain Mapp. 2018 Oct 13. doi: 10.1002/hbm.24426. [Epub ahead of print]

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[Differentiation between radiation-induced brain injury and glioma recurrence using 3D pCASL and dynamic susceptibility contrast-enhanced perfusion-weighted imaging.](#)

Wang YL, Chen S, Xiao HF, Li Y, Wang Y, Liu G, Lou X, Ma L.

Radiother Oncol. 2018 Oct;129(1):68-74. doi: 10.1016/j.radonc.2018.01.009. Epub 2018 Feb 2.

## Functional Imaging / BOLD

*new*

### [Cerebral blood flow is not modulated following acute aerobic exercise in preadolescent children.](#)

Pontifex MB, Gwizdala KL, Weng TB, Zhu DC, Voss MW.

Int J Psychophysiol. 2018 Oct 12;134:44-51. doi: 10.1016/j.ijpsycho.2018.10.007. [Epub ahead of print]

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

*new*

### [A framework for motion correction of background suppressed arterial spin labeling perfusion images acquired with simultaneous multi-slice EPI.](#)

Suzuki Y, Okell TW, Chappell MA, van Osch MJP.

Magn Reson Med. 2018 Oct 12. doi: 10.1002/mrm.27499. [Epub ahead of print]

## ASL at Field Strength > 3T

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## Cohort Studies / Gender- and Age Dependencies

*new*

[The lifespan Human Connectome Project in aging: An overview.](#)

Bookheimer SY, Salat DH, Terpstra M, Ances BM, Barch DM, Buckner RL, Burgess GC, Curtiss SW, Diaz-Santos M, Elam JS, Fischl B, Greve DN, Hagy HA, Harms MP, Hatch OM, Hedden T, Hodge C, Japardi KC, Kuhn TP, Ly TK, Smith SM, Somerville LH, Uğurbil K, van der Kouwe A, Van Essen D, Woods RP, Yacoub E.

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[Trajectories in Cerebral Blood Flow Following Antidepressant Treatment in Late-Life Depression: Support for the Vascular Depression Hypothesis.](#)

Wei W, Karim HT, Lin C, Mizuno A, Andreescu C, Karp JF, Reynolds CF 3rd, Aizenstein HJ.

J Clin Psychiatry. 2018 Oct 23;79(6). pii: 18m12106. doi: 10.4088/JCP.18m12106.

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Ludwig KD, Fain SB, Nguyen SM, Golos TG, Reeder SB, Bird IM, Shah DM, Wieben OE, Johnson KM.

Magn Reson Med. 2018 Oct 25. doi: 10.1002/mrm.27548. [Epub ahead of print]

## ASL in the Liver

*new*

[Using MRI to study the alterations in liver blood flow, perfusion, and oxygenation in response to physiological stress challenges: Meal, hyperoxia, and hypercapnia.](#)

Cox EF, Palaniyappan N, Aithal GP, Guha IN, Francis ST.

J Magn Reson Imaging. 2018 Oct 24. doi: 10.1002/jmri.26341. [Epub ahead of print]

## ASL in Kidneys

*new*

[Intravoxel Incoherent Motion and Arterial Spin Labeling MRI Analysis of Reversible Unilateral Ureteral Obstruction in Rats.](#)

Hu G, Yang Z, Liang W, Lai C, Mei Y, Li Y, Xu J, Luo L, Quan X.

J Magn Reson Imaging. 2018 Oct 16. doi: 10.1002/jmri.26536. [Epub ahead of print]



## Perfusion Studies others than on Brain

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Nutrients. 2018 Oct 1;10(10). pii: E1391. doi: 10.3390/nu10101391.

*new*

[CEST, ASL, and magnetization transfer contrast: How similar pulse sequences detect different phenomena.](#)

Knutsson L, Xu J, Ahlgren A, van Zijl PCM.

Magn Reson Med. 2018 Oct;80(4):1320-1340. doi: 10.1002/mrm.27341. Epub 2018 May 30. Review.

## 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).