

Dear Colleagues,

Here is the ASL Newsletter No. 82 with new publications on ASL in February 2018.

As the winter passes by, the preparations for ISMRM become more detailed.

Save the date! For various reasons, the **ASL Network Dinner** will take place on **Monday, June 18th**.

We are currently looking for a location, which is also equipped with a stage to host the **T2-AllStars** that evening... if any of you knows Paris well and has a good advice, please let me know.

We hope to give some updates on this with the next Newsletter as well as the 'official' invitation.

Kind regards,

Klaus

Recent publications February 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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Animal Studies

new

Dysregulation of RNF213 promotes cerebral hypoperfusion.

Morimoto T, Enmi JI, Hattori Y, Iguchi S, Saito S, Harada KH, Okuda H, Mineharu Y, Takagi Y, Youssefian S, Iida H, Miyamoto S, Ihara M, Kobayashi H, Koizumi A.
 Sci Rep. 2018 Feb 26;8(1):3607. doi: 10.1038/s41598-018-22064-8.

new

JOURNAL CLUB: Evaluation of Diffusion Kurtosis Imaging of Stroke Lesion With Hemodynamic and Metabolic MRI in a Rodent Model of Acute Stroke.

Lu D, Jiang Y, Ji Y, Zhou IY, Mandeville E, Lo EH, Wang X, Sun PZ.
 AJR Am J Roentgenol. 2018 Feb 22:1-8. doi: 10.2214/AJR.17.19134. [Epub ahead of print]

new

Water Diffusion in the Brain of Chronic Hypoperfusion Model Mice: A Study Considering the Effect of Blood Flow.

Urushihata T, Takuwa H, Seki C, Tachibana Y, Takahashi M, Kershaw J, Takado Y, Aoki I, Higuchi M, Ito H, Obata T.
 Magn Reson Med Sci. 2018 Feb 13. doi: 10.2463/mrms.mp.2017-0149. [Epub ahead of print]
[Free Article](#)

Pharmacological / Drug Studies / Studies on the Effects of Therapies

new

Monitoring cerebral blood flow change through use of arterial spin labelling in acute ischaemic stroke patients after intra-arterial thrombectomy.

Yoo RE, Yun TJ, Yoo DH, Cho YD, Kang HS, Yoon BW, Jung KH, Kang KM, Choi SH, Kim JH, Sohn CH.

Eur Radiol. 2018 Feb 23. doi: 10.1007/s00330-018-5319-0. [Epub ahead of print]

new

Glutamate Levels and Resting Cerebral Blood Flow in Anterior Cingulate Cortex Are Associated at Rest and Immediately Following Infusion of S-Ketamine in Healthy Volunteers.

Bojesen KB, Andersen KA, Rasmussen SN, Baandrup L, Madsen LM, Glenthøj BY, Rostrup E, Broberg BV.

Front Psychiatry. 2018 Feb 6;9:22. doi: 10.3389/fpsy.2018.00022. eCollection 2018.

[Free PMC Article](#)

Cerebral Blood Flow Studies

CBF Regional Comparison / Regional ASL

new

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Studies on Special Disease

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new

Randomised controlled trial of simvastatin treatment for autism in young children with neurofibromatosis type 1 (SANTA).

Stivaros S, Garg S, Tziraki M, Cai Y, Thomas O, Mellor J, Morris AA, Jim C, Szumanska-Ryt K, Parkes LM, Haroon HA, Montaldi D, Webb N, Keane J, Castellanos FX, Silva AJ, Huson S, Williams S, Gareth Evans D, Emsley R, Green J; SANTA Consortium.
Mol Autism. 2018 Feb 22;9:12. doi: 10.1186/s13229-018-0190-z. eCollection 2018.

new

Structural and advanced imaging in predicting MGMT promoter methylation of primary glioblastoma: a region of interest based analysis.

Han Y, Yan LF, Wang XB, Sun YZ, Zhang X, Liu ZC, Nan HY, Hu YC, Yang Y, Zhang J, Yu Y, Sun Q, Tian Q, Hu B, Xiao G, Wang W, Cui GB.
BMC Cancer. 2018 Feb 21;18(1):215. doi: 10.1186/s12885-018-4114-2.

[Free PMC Article](#)

new

Reversible Dilation of Cerebral Macrovascular Changes in MELAS Episodes.

Li Y, Xu W, Sun C, Lin J, Qu J, Cao J, Li H, Yang L.
Clin Neuroradiol. 2018 Feb 20. doi: 10.1007/s00062-018-0662-8. [Epub ahead of print]

new

Pediatric astrocytic tumor grading: comparison between arterial spin labeling and dynamic susceptibility contrast MRI perfusion.

Morana G, Tortora D, Staglianò S, Nozza P, Mascelli S, Severino M, Piatelli G, Consales A, Lequin M, Garrè ML, Rossi A.
Neuroradiology. 2018 Feb 16. doi: 10.1007/s00234-018-1992-6. [Epub ahead of print]

new

Blood perfusion in left inferior and middle frontal gyrus predicts communication skills in schizophrenia.

Cantisani A, Stegmayer K, Federspiel A, Bohlhalter S, Wiest R, Walther S.
Psychiatry Res. 2018 Feb 10. pii: S0925-4927(17)30229-9. doi: 10.1016/j.psychres.2018.02.002. [Epub ahead of print]

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

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Magn Reson Med Sci. 2018 Feb 13. doi: 10.2463/mrms.mp.2017-0149. [Epub ahead of print]

[Free Article](#)

new

[Imaging Human Brain Perfusion with Inhaled Hyperpolarized ¹²⁹Xe MR Imaging.](#)

Rao MR, Stewart NJ, Griffiths PD, Norquay G, Wild JM.

Radiology. 2018 Feb;286(2):659-665. doi: 10.1148/radiol.2017162881. Epub 2017 Aug 31.

Functional Imaging / BOLD

new

[Cardiorespiratory noise correction improves the ASL signal.](#)

Hassanpour MS, Luo Q, Simmons WK, Feinstein JS, Paulus MP, Luh WM, Bodurka J, Khalsa SS.

Hum Brain Mapp. 2018 Feb 15. doi: 10.1002/hbm.24000. [Epub ahead of print]

new

[Multiband multi-echo simultaneous ASL/BOLD for task-induced functional MRI.](#)

Cohen AD, Nencka AS, Wang Y.

PLoS One. 2018 Feb 1;13(2):e0190427. doi: 10.1371/journal.pone.0190427. eCollection 2018.

[Free PMC Article](#)

Non-CBF specific: Comparison of ASL Methods/ Comparison of ASL with Other Diagnostic Methods

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[Cardiovascular cine imaging and flow evaluation using Fast Interrupted Steady-State \(FISS\) magnetic resonance.](#)

Edelman RR, Serhal A, Pursnani A, Pang J, Koktzoglou I.

J Cardiovasc Magn Reson. 2018 Feb

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J Cardiovasc Magn Reson. 2018 Feb

new

[Three-dimensional arterial spin labeling imaging with a DANTE preparation pulse.](#)

Matsuda T, Kimura H, Kabasawa H, Kanamoto M.

Magn Reson Imaging. 2018 Feb 12. pii: S0730-725X(18)30012-2. doi:

10.1016/j.mri.2018.02.001. [Epub ahead of print]

new

[Controlling T2 blurring in 3D RARE arterial spin labeling acquisition through optimal combination of variable flip angles and k-space filtering.](#)

Zhao L, Chang CD, Alsop DC.

Magn Reson Med. 2018 Feb 9. doi: 10.1002/mrm.27118. [Epub ahead of print]

new

[Multiband multi-echo simultaneous ASL/BOLD for task-induced functional MRI.](#)

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PLoS One. 2018 Feb 1;13(2):e0190427. doi: 10.1371/journal.pone.0190427. eCollection 2018.

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Cohort Studies / Gender- and Age Dependencies

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Mol Autism. 2018 Feb 22;9:12. doi: 10.1186/s13229-018-0190-z. eCollection 2018.

Others

new

[Placental perfusion imaging using velocity-selective arterial spin labeling.](#)

Zun Z, Limperopoulos C.

Magn Reson Med. 2018 Feb 13. doi: 10.1002/mrm.27100. [Epub ahead of print]

Review Paper / Historical Review / Guidelines

new

[Research Imaging of Brain Structure and Function After Concussion.](#)

Chong CD, Schwedt TJ.

Headache. 2018 Feb 24. doi: 10.1111/head.13269. [Epub ahead of print] Review.

new

[Perfusion Imaging in Acute Traumatic Brain Injury.](#)

Douglas DB, Chaudhari R, Zhao JM, Gullo J, Kirkland J, Douglas PK, Wolin E, Walroth J, Wintermark M.

Neuroimaging Clin N Am. 2018 Feb;28(1):55-65. doi: 10.1016/j.nic.2017.09.002. Epub 2017 Oct 23. 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