

Dear colleagues,

Hope the ISMRM travellers of you are safe back home and had a good time on Hawaii. If somebody would like to highlight some specific abstract, talk or discussion, we will be happy to have some featured article in one of the next newsletters. Feel free to contact me (editor[AT]asl-newsletter.org).

For those of you who prefer mild summer temperatures in Europe, I would like to remind you on two upcoming events:

International symposium on Imaging Cerebral Physiology

Cardiff / UK, 8 - 9 June

<http://www.cardiff.ac.uk/conferences/imaging-cerebral-physiology-icp-2017>

ESMRMB course on "Measurement of perfusion and capillary exchange"

Bremen / GER, 21 – 23 June

[http://www.esmrb.org/index.php?id=/en/lectures\\_on\\_mr/lectures\\_on\\_mr\\_courses\\_2017/measurement\\_of\\_perfusion\\_and\\_capillary\\_exchange1.htm](http://www.esmrb.org/index.php?id=/en/lectures_on_mr/lectures_on_mr_courses_2017/measurement_of_perfusion_and_capillary_exchange1.htm)

As usual, please find below the recent publications on ASL in the ASL Newsletter No. 73.

Kind regards,  
Klaus

## Recent publications

April 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.

### Content:

Animal Studies.....	2
Pharmacological / Drug Studies / Studies on the Effects of Therapies .....	3
Cerebral Blood Flow Studies.....	3
CBF Regional Comparison / Regional ASL.....	3
Studies on Special Disease .....	4
Comparison of ASL Techniques / ASL Compared with Other Imaging Methods / ASL	

Combined with Other Imaging Methods .....	6
Functional Imaging / BOLD .....	6
Others CBF Related.....	6
Physiological Parameters besides CBF .....	7
ASL for Angiography .....	7
ASL in Kidneys.....	7
Non-CBF specific: Comparison of ASL Methods/ Comparison of ASL with Other Diagnostic Methods.....	8
ASL Data Analysis/ Comparison of ASL Evaluation Methods/ Kinetic Models/ Data Corrections/ Postprocessing .....	8
Technical Improvement / Parameter Optimization .....	8
Screening / Prognosis / Prevention .....	9
ASL at Field Strength > 3T .....	10
Cohort Studies / Gender- and Age Dependencies .....	10
Others .....	10
Review Paper / Historical Review / Guidelines .....	11
Job Offerings & Featured Articles .....	11

## Animal Studies

*new*

### **MRI-based quantification of renal perfusion in mice: Improving sensitivity and stability in FAIR ASL.**

Gutjahr FT, Günster SM, Kampf T, Winter P, Herold V, Bauer WR, Jakob PM.  
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[Epub ahead of print]

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Brain Struct Funct. 2017 Apr 8. doi: 10.1007/s00429-017-1409-z. [Epub ahead of print]

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Clin Exp Pharmacol Physiol. 2017 Apr;44(4):463-469. doi: 10.1111/1440-1681.12718.

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J Cereb Blood Flow Metab. 2017 Apr;37(4):1386-1397. doi: 10.1177/0271678X16656014. Epub 2016 Jan 1.

## **Cerebral Blood Flow Studies**

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

**Effects of a brief cognitive behavioural therapy group intervention on baseline brain perfusion in adolescents with major depressive disorder.**

Sosic-Vasic Z, Abler B, Grön G, Plener P, Straub J.  
Neuroreport. 2017 Apr 12;28(6):348-353. doi: 10.1097/WNR.0000000000000770.

**Association of Collateral Blood Vessels Detected by Arterial Spin Labeling Magnetic Resonance Imaging With Neurological Outcome After Ischemic Stroke.**

de Havenon A, Haynor DR, Tirschwell DL, Majersik JJ, Smith G, Cohen W, Andre JB.  
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AJNR Am J Neuroradiol. 2017 Apr;38(4):703-711. doi: 10.3174/ajnr.A5090. Epub 2017 Feb 9.

## Studies on Special Disease

*new*

**The VEGF gene polymorphism impacts brain volume and arterial blood volume.**

Takeuchi H, Tomita H, Taki Y, Kikuchi Y, Ono C, Yu Z, Sekiguchi A, Nouchi R, Kotozaki Y, Nakagawa S, Miyauchi CM, Iizuka K, Yokoyama R, Shinada T, Yamamoto Y, Hanawa S, Araki T, Kunitoki K, Sassa Y, Kawashima R.

Hum Brain Mapp. 2017 Apr 12. doi: 10.1002/hbm.23606. [Epub ahead of print]

*new*

**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 Apr 10. doi: 10.1007/s00234-017-1828-9. [Epub ahead of print]

*new*

**Proximal Bright Vessel Sign on Arterial Spin Labeling Magnetic Resonance Imaging in Acute Cardioembolic Cerebral Infarction.**

Kato A, Shinohara Y, Kuya K, Sakamoto M, Kowa H, Ogawa T.

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**Follow-up assessment of coiled intracranial aneurysms using zTE MRA as compared with TOF MRA: a preliminary image quality study.**

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**Arterial spin labeling-based Z-maps have high specificity and positive predictive value for neurodegenerative dementia compared to FDG-PET.**

Fällmar D, Haller S, Lilja J, Danfors T, Kilander L, Tolboom N, Egger K, Kellner E, Croon PM, Verfaillie SC, van Berckel BN, Ossenkoppele R, Barkhof F, Larsson EM.

Eur Radiol. 2017 Apr 3. doi: 10.1007/s00330-017-4784-1. [Epub ahead of print]

*new*

**A clinical analysis of 5 patients with infratentorial primary angiitis of central nervous system.**

Peng LJ, Qian HR, Mao LL, Xia DY, Qi XK.

Zhonghua Nei Ke Za Zhi. 2017 Apr 1;56(4):284-289. doi: 10.3760/cma.j.issn.0578-1426.2017.04.009. Chinese.

*new*

**Hemiplegic migraine and arterial spin labelling sequence.**

Martín Fernández-Mayoralas D, Jiménez de la Peña M, Fernández-Jaén A, Fernández-Perrone AL.

An Pediatr (Barc). 2017 Apr;86(4):232-233. doi: 10.1016/j.anpedi.2016.03.011. Epub 2016 May 24. Spanish. No abstract available.

[Free Article](#)

*new*

**Imaging of cerebrovascular reserve and oxygenation in Moyamoya disease.**

Ni WW, Christen T, Rosenberg J, Zun Z, Moseley ME, Zaharchuk G.

J Cereb Blood Flow Metab. 2017 Apr;37(4):1213-1222. doi: 10.1177/0271678X16651088. Epub 2016 Jan 1.

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**Noninvasive Evaluation of CBF and Perfusion Delay of Moyamoya Disease Using Arterial Spin-Labeling MRI with Multiple Postlabeling Delays: Comparison with <sup>15</sup>O-Gas PET and DSC-MRI.**

Hara S, Tanaka Y, Ueda Y, Hayashi S, Inaji M, Ishiwata K, Ishii K, Maehara T, Nariai T.

AJNR Am J Neuroradiol. 2017 Apr;38(4):696-702. doi: 10.3174/ajnr.A5068. Epub 2017 Feb 16.

**Feasibility of Flat Panel Detector CT in Perfusion Assessment of Brain Arteriovenous Malformations: Initial Clinical Experience.**

Garcia M, Okell TW, Gloor M, Chappell MA, Jeppard P, Bieri O, Byrne JV.

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Desai J, Huo Y, Wang Z, Bansal R, Williams SC, Lythgoe D, Zelaya FO, Peterson BS.  
Hum Brain Mapp. 2017 Apr;38(4):1865-1874. doi: 10.1002/hbm.23487. Epub 2016 Dec 30.

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

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## Functional Imaging / BOLD

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## Others CBF Related

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Schmid S, Petersen ET, Van Osch MJ.  
MAGMA. 2017 Apr;30(2):165-174. doi: 10.1007/s10334-016-0596-6. Epub 2016 Oct 27.

## Physiological Parameters besides CBF

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**Renal plasma flow (RPF) measured with multiple-inversion-time arterial spin labeling (ASL) and tracer kinetic analysis: Validation against a dynamic contrast-enhancement method.**

Conlin CC, Oesingmann N, Bolster B Jr, Huang Y, Lee VS, Zhang JL.

Magn Reson Imaging. 2017 Apr;37:51-55. doi: 10.1016/j.mri.2016.11.010. Epub 2016 Nov 15.

**Non-CBF specific: Comparison of ASL Methods/  
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Eur Radiol. 2017 Apr 3. doi: 10.1007/s00330-017-4784-1. [Epub ahead of print]

[Imaging Brain Collaterals: Quantification, Scoring, and Potential Significance.](#)

Raymond SB, Schaefer PW.

Top Magn Reson Imaging. 2017 Apr;26(2):67-75. doi: 10.1097/RMR.000000000000123.

## ASL at Field Strength > 3T

*new*

### [The role of high-field magnetic resonance imaging in parkinsonian disorders: Pushing the boundaries forward.](#)

Lehericy S, Vaillancourt DE, Seppi K, Monchi O, Rektorova I, Antonini A, McKeown MJ, Masellis M, Berg D, Rowe JB, Lewis SJG, Williams-Gray CH, Tessitore A, Siebner HR; International Parkinson and Movement Disorder Society (IPMDS)-Neuroimaging Study Group.. Mov Disord. 2017 Apr;32(4):510-525. doi: 10.1002/mds.26968. Epub 2017 Mar 28. Review.

## Cohort Studies / Gender- and Age Dependencies

*new*

### [The VEGF gene polymorphism impacts brain volume and arterial blood volume.](#)

Takeuchi H, Tomita H, Taki Y, Kikuchi Y, Ono C, Yu Z, Sekiguchi A, Nouchi R, Kotozaki Y, Nakagawa S, Miyauchi CM, Iizuka K, Yokoyama R, Shinada T, Yamamoto Y, Hanawa S, Araki T, Kunitoki K, Sassa Y, Kawashima R. Hum Brain Mapp. 2017 Apr 12. doi: 10.1002/hbm.23606. [Epub ahead of print]

### [White Matter Hyperintensity Associations with Cerebral Blood Flow in Elderly Subjects Stratified by Cerebrovascular Risk.](#)

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## Others

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### [Letter by Nabavizadeh et al Regarding Article, "Prediction of Blood-Brain Barrier Disruption and Intracerebral Hemorrhagic Infarction Using Arterial Spin-Labeling Magnetic Resonance Imaging".](#)

Nabavizadeh SA, Mowla A, Vossough A. Stroke. 2017 Apr;48(4):e112. doi: 10.1161/STROKEAHA.116.016457. Epub 2017 Mar 3. No abstract available.

**Reply to: Early hypoperfusion on arterial spin labelling may be a diagnostic marker for acute encephalopathy with biphasic seizures and late reduced diffusion.**

Kuya K, Fujii S, Ogawa T.

Brain Dev. 2017 Apr 24. pii: S0387-7604(17)30108-0. doi: 10.1016/j.braindev.2017.03.028. [Epub ahead of print] No abstract available.

## **Review Paper / Historical Review / Guidelines**

*new*

**The role of high-field magnetic resonance imaging in parkinsonian disorders: Pushing the boundaries forward.**

Lehericy S, Vaillancourt DE, Seppi K, Monchi O, Rektorova I, Antonini A, McKeown MJ, Masellis M, Berg D, Rowe JB, Lewis SJG, Williams-Gray CH, Tessitore A, Siebner HR; International Parkinson and Movement Disorder Society (IPMDS)-Neuroimaging Study Group.. Mov Disord. 2017 Apr;32(4):510-525. doi: 10.1002/mds.26968. Epub 2017 Mar 28. Review.

**Advanced MRI Measures of Cerebral Perfusion and Their Clinical Applications.**

Lanzman B, Heit JJ.

Top Magn Reson Imaging. 2017 Apr;26(2):83-90. doi: 10.1097/RMR.000000000000120.

**Biomarkers, designs, and interpretations of resting-state fMRI in translational pharmacological research: A review of state-of-the-Art, challenges, and opportunities for studying brain chemistry.**

Khalili-Mahani N, Rombouts SA, van Osch MJ, Duff EP, Carbonell F, Nickerson LD, Becerra L, Dahan A, Evans AC, Soucy JP, Wise R, Zijdenbos AP, van Gerven JM.

Hum Brain Mapp. 2017 Apr;38(4):2276-2325. doi: 10.1002/hbm.23516. Epub 2017 Feb 1. Review.

## **Job Offerings & Featured Articles**

- If you have any vacancies please send them to [jobsATasl-network.org](http://jobsATasl-network.org)
- If you would like to write a comment on an interesting article mail it to [editorATasl-network.org](mailto:editorATasl-network.org)