

Dear Colleagues,

Here is the ASL Newsletter No. 58.

With this newsletter I would like to introduce myself to the ASL community. My name is Klaus Eickel and took over the ASL Newsletter and homepage from my colleague Ina as she announced already in the previous newsletter.

In March this year I had the chance to get to know some of you during the COST Working Group Meeting in Les Diablerets. I am looking forward to see you in the next days during the ESMRMB in Edinburgh or later on at the last COST Working Group Meeting at Airth Castle ([www.aslindementia.org](http://www.aslindementia.org)).

Kind regards,  
Klaus



## Recent publications September 2015, (e-publications might have been earlier):

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## Animal Studies

### [Kidney Transplantation: Multiparametric Functional Magnetic Resonance Imaging for Assessment of Renal Allograft Pathophysiology in Mice.](#)

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## Cerebral Blood Flow Studies

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

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Nagaraj UD, Evangelou IE, Donofrio MT, Vezina LG, McCarter R, du Plessis AJ, Limperopoulos C.

J Pediatr. 2015 Sep 15. pii: S0022-3476(15)00860-4. doi: 10.1016/j.jpeds.2015.08.004. [Epub ahead of print]

[Primary Somatosensory Cortices Contain Altered Patterns of Regional Cerebral Blood Flow in the Interictal Phase of Migraine.](#)

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[Brain Perfusion Is Increased at Term in the White Matter of Very Preterm Newborns and Newborns with Congenital Heart Disease: Does this Reflect Activated Angiogenesis?](#)

Wintermark P, Lechpammer M, Kosaras B, Jensen FE, Warfield SK.

Neuropediatrics. 2015 Oct;46(5):344-51. doi: 10.1055/s-0035-1563533. Epub 2015 Sep 4.

[A Short Introduction to Arterial Spin Labeling and its Application to Flow Territory Mapping.](#)

Lindner T, Helle M, Jansen O.

Clin Neuroradiol. 2015 Oct;25(Suppl 2):211-218. Epub 2015 Aug 26.

## **Studies on Special Disease**

[Retinotopic Changes in the Gray Matter Volume and Cerebral Blood Flow in the Primary Visual Cortex of Patients With Primary Open-Angle Glaucoma.](#)

Zhang S, Wang B, Xie Y, Zhu S, Thomas R, Qing G, Zhang C, Wang N.

Invest Ophthalmol Vis Sci. 2015 Sep 1;56(10):6171-6178. doi: 10.1167/iovs.15-17286.

[MR Imaging-Based Analysis of Glioblastoma Multiforme: Estimation of IDH1 Mutation Status.](#)

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[Advanced neuroimaging applied to veterans and service personnel with traumatic brain injury: state of the art and potential benefits.](#)

Wilde EA, Bouix S, Tate DF, Lin AP, Newsome MR, Taylor BA, Stone JR, Montier J, Gandy SE, Biekman B, Shenton ME, York G.

Brain Imaging Behav. 2015 Sep;9(3):367-402. doi: 10.1007/s11682-015-9444-y.

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[Medial Occipital Lobe Hyperperfusion Identified by Arterial Spin-Labeling: A Poor Prognostic Sign in Patients with Hypoxic-Ischemic Encephalopathy.](#)

de Havenon A, Sultan-Qurraie A, Tirschwell D, Cohen W, Majersik J, Andre JB. AJNR Am J Neuroradiol. 2015 Sep 3. [Epub ahead of print]

[Psychomotor symptoms of schizophrenia map on the cerebral motor circuit.](#)

Walther S.

Psychiatry Res. 2015 Sep 30;233(3):293-8. doi: 10.1016/j.psychres.2015.06.010. Review.

[Correlation of Asymmetry Indices Measured by Arterial Spin-Labeling MR Imaging and SPECT in Patients with Crossed Cerebellar Diaschisis.](#)

Kang KM, Sohn CH, Kim BS, Kim YI, Choi SH, Yun TJ, Kim JH, Park SW, Cheon GJ, Han MH. AJNR Am J Neuroradiol. 2015 Sep;36(9):1662-8. doi: 10.3174/ajnr.A4366. Epub 2015 Jul 30.

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[Perfusion shift from white to gray matter may account for processing speed deficits in schizophrenia.](#)

Wright SN, Hong LE, Winkler AM, Chiappelli J, Nugent K, Muellerklein F, Du X, Rowland LM, Wang DJ, Kochunov P.

Hum Brain Mapp. 2015 Oct;36(10):3793-804. doi: 10.1002/hbm.22878. Epub 2015 Jun 24.

[Collateral circulation via the circle of Willis in patients with carotid artery steno-occlusive disease: evaluation on 3-T 4D MRA using arterial spin labeling.](#)

Iryo Y, Hirai T, Nakamura M, Inoue Y, Watanabe M, Ando Y, Azuma M, Nishimura S, Shigematsu Y, Kitajima M, Yamashita Y.

Clin Radiol. 2015 Sep;70(9):960-5. doi: 10.1016/j.crad.2015.05.002. Epub 2015 Jun 6.

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[Arterial Spin Labeling Perfusion Magnetic Resonance Image with Dual Postlabeling Delay: A Correlative Study with Acetazolamide Loading <sup>123</sup>I-Iodoamphetamine Single-Photon Emission Computed Tomography.](#)

Haga S, Morioka T, Shimogawa T, Akiyama T, Murao K, Kanazawa Y, Sayama T, Arakawa S.  
J Stroke Cerebrovasc Dis. 2015 Sep 16. pii: S1052-3057(15)00455-3. doi: 10.1016/j.jstrokecerebrovasdis.2015.08.025. [Epub ahead of print]

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## Functional Imaging / BOLD

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[Intrahepatic portal vein blood volume estimated by non-contrast magnetic resonance imaging for the assessment of portal hypertension.](#)

Aguirre-Reyes DF, Sotelo JA, Arab JP, Arrese M, Tejos R, Irrarrazaval P, Tejos C, Uribe SA, Andia ME.

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## **Physiological Parameters besides CBF**

[Assessing intracranial vascular compliance using dynamic arterial spin labeling.](#)

Yan L, Liu CY, Smith RX, Jog M, Langham M, Krasileva K, Chen Y, Ringman JM, Wang DJ. Neuroimage. 2015 Sep 10;124(Pt A):433-441. doi: 10.1016/j.neuroimage.2015.09.008. [Epub ahead of print]

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[Superselective pseudo-continuous arterial spin labeling angiography.](#)

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[Increased SNR efficiency in velocity selective arterial spin labeling using multiple velocity selective saturation modules \(mm-VSASL\).](#)

Guo J, Wong EC.

Magn Reson Med. 2015 Sep;74(3):694-705. doi: 10.1002/mrm.25462. Epub 2014 Sep 22.

[Improving perfusion quantification in arterial spin labeling for delayed arrival times by using optimized acquisition schemes.](#)

Kramme J, Gregori J, Diehl V, Madai VI, von Samson-Himmelstjerna FC, Lentschig M, Sobesky J, Günther M.

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[Age-related changes in brain hemodynamics: A calibrated MRI study.](#)

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