

Dear Colleagues,

Here is the ASL Newsletter No. 60 and the last one in 2015.

After the (soon coming) end of the COST Network era and the collection of some new ideas for our "community communication" we will have some changes in the newsletter format and our homepage (www.asl-network.org) in 2016.

See you next year & kind regards,
Klaus

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

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Animal Studies

[Time course of cardiometabolic alterations in a high fat high sucrose diet mice model and improvement after GLP-1 analog treatment using multimodal cardiovascular magnetic resonance.](#)

Abdesselam I, Pepino P, Troalen T, Macia M, Ancel P, Masi B, Fourny N, Gaborit B, Giannesini B, Kober F, Dutour A, Bernard M.

J Cardiovasc Magn Reson. 2015 Nov 6;17(1):95. doi: 10.1186/s12968-015-0198-x.

[Pharmacologically-induced neurovascular uncoupling is associated with cognitive impairment in mice.](#)

Tarantini S, Hertelendy P, Tucsek Z, Valcarcel-Ares MN, Smith N, Menyhart A, Farkas E, Hodges EL, Towner R, Deak F, Sonntag WE, Csiszar A, Ungvari Z, Toth P.

J Cereb Blood Flow Metab. 2015 Nov;35(11):1871-81. doi: 10.1038/jcbfm.2015.162. Epub 2015 Jul 15.

[Evaluation of EPI distortion correction methods for quantitative MRI of the brain at high magnetic field.](#)

Hong X, To XV, Teh I, Soh JR, Chuang KH.

Magn Reson Imaging. 2015 Nov;33(9):1098-105. doi: 10.1016/j.mri.2015.06.010. Epub 2015 Jun 25.

[Positron emission tomography/magnetic resonance hybrid scanner imaging of cerebral blood flow using \(15\)O-water positron emission tomography and arterial spin labeling magnetic resonance imaging in newborn piglets.](#)

Andersen JB, Henning WS, Lindberg U, Ladefoged CN, Højgaard L, Greisen G, Law I.

J Cereb Blood Flow Metab. 2015 Nov;35(11):1703-10. doi: 10.1038/jcbfm.2015.139. Epub 2015 Jun 10.

Pharmacological / Drug Studies / Studies on the Effects of Therapies

[Mindfulness Meditation-Based Pain Relief Employs Different Neural Mechanisms Than Placebo and Sham Mindfulness Meditation-Induced Analgesia.](#)

Zeidan F, Emerson NM, Farris SR, Ray JN, Jung Y, McHaffie JG, Coghill RC.

J Neurosci. 2015 Nov 18;35(46):15307-25. doi: 10.1523/JNEUROSCI.2542-15.2015.

[Cerebral Blood Flow Improvement after Indirect Revascularization for Pediatric Moyamoya Disease: A Statistical Analysis of Arterial Spin-Labeling MRI.](#)

Blauwblomme T, Lemaitre H, Naggara O, Calmon R, Kossorotof M, Bourgeois M, Mathon B, Puget S, Zerah M, Brunelle F, Sainte-Rose C, Boddaert N.

AJNR Am J Neuroradiol. 2015 Nov 19. [Epub ahead of print]

[Cerebral Perfusion and Gray Matter Changes Associated With Chemotherapy-Induced Peripheral Neuropathy.](#)

Nudelman KN, McDonald BC, Wang Y, Smith DJ, West JD, O'Neill DP, Zanville NR, Champion VL, Schneider BP, Saykin AJ.

J Clin Oncol. 2015 Nov 2. pii: JCO.2015.62.1276. [Epub ahead of print]

[Transient reduction in venous susceptibility during posterior reversible encephalopathy syndrome.](#)

Ollivier M, Wanono E, Leclercq D, Domont F, Trunet S, Dormont D, Bertrand A.

J Neurol Sci. 2015 Nov 15;358(1-2):505-6. doi: 10.1016/j.jns.2015.09.359. Epub 2015 Sep 25.

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[Temporal assessment of pancreatic blood flow and perfusion following secretin stimulation using noninvasive MRI.](#)

Cox EF, Smith JK, Chowdhury AH, Lobo DN, Francis ST, Simpson J.
J Magn Reson Imaging. 2015 Nov;42(5):1233-40. doi: 10.1002/jmri.24889. Epub 2015 Mar 18.

Cerebral Blood Flow Studies

CBF Regional Comparison / Regional ASL

[Global and Regional Derangements of Cerebral Blood Flow and Diffusion Magnetic Resonance Imaging after Pediatric Cardiac Arrest.](#)

Manchester LC, Lee V, Schmithorst V, Kochanek PM, Panigrahy A, Fink EL.
J Pediatr. 2015 Nov 7. pii: S0022-3476(15)01162-2. doi: 10.1016/j.jpeds.2015.10.003. [Epub ahead of print]

[Impaired Global and Regional Cerebral Perfusion in Newborns with Complex Congenital Heart Disease.](#)

Nagaraj UD, Evangelou IE, Donofrio MT, Vezina LG, McCarter R, du Plessis AJ, Limperopoulos C.
J Pediatr. 2015 Nov;167(5):1018-24. doi: 10.1016/j.jpeds.2015.08.004. Epub 2015 Sep 15.

[Evaluation of cerebral blood flow using multi-phase pseudo continuous arterial spin labeling at 3-tesla.](#)

Sugimori H, Fujima N, Suzuki Y, Hamaguchi H, Sakata M, Kudo K.
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[Asymmetry of cerebral blood flow measured with three-dimensional pseudocontinuous arterial spin-labeling mr imaging in temporal lobe epilepsy with and without mesial temporal sclerosis.](#)

Guo X, Xu S, Wang G, Zhang Y, Guo L, Zhao B.
J Magn Reson Imaging. 2015 Nov;42(5):1386-97. doi: 10.1002/jmri.24920. Epub 2015 Apr 17.

Studies on Special Disease

[EEG marker of inhibitory brain activity correlates with resting-state cerebral blood flow in the reward system in major depression.](#)

Cantisani A, Koenig T, Stegmayer K, Federspiel A, Horn H, Müller TJ, Wiest R, Strik W, Walther S.

Eur Arch Psychiatry Clin Neurosci. 2015 Nov 21. [Epub ahead of print]

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AJNR Am J Neuroradiol. 2015 Nov 19. [Epub ahead of print]

[Cerebral hyperperfusion on arterial spin labeling MRI during CADASIL migrainous encephalopathy.](#)

Moreton FC, Santosh C, McArthur K, Muir KW.

Neurology. 2015 Nov 13. pii: 10.1212/WNL.0000000000002214. [Epub ahead of print] No abstract available.

[Discriminative Power of Arterial Spin Labeling Magnetic Resonance Imaging and 18F-Fluorodeoxyglucose Positron Emission Tomography Changes for Amyloid- \$\beta\$ -Positive Subjects in the Alzheimer's Disease Continuum.](#)

Tosun D, Schuff N, Jagust W, Weiner MW; Alzheimer's Disease Neuroimaging Initiative.

Neurodegener Dis. 2015 Nov 12. [Epub ahead of print]

[Cerebral Perfusion and Gray Matter Changes Associated With Chemotherapy-Induced Peripheral Neuropathy.](#)

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J Neurol Sci. 2015 Nov 15;358(1-2):505-6. doi: 10.1016/j.jns.2015.09.359. Epub 2015 Sep 25.

[Probable novel PSEN2 Pro123Leu mutation in a Chinese Han family of Alzheimer's disease.](#)

Xia M, Chen S, Shi Y, Huang Y, Xu J, Zhao T, He S, Wu Y, Xu C, Zang W, Zhang J.

Neurobiol Aging. 2015 Dec;36(12):3334.e13-8. doi: 10.1016/j.neurobiolaging.2015.09.003. Epub 2015 Sep 8.

[Cerebral Blood Flow Alterations in Acute Sport-Related Concussion.](#)

Wang Y, Nelson LD, LaRoche AA, Pfaller AY, Nencka AS, Koch KM, McCrea MA.

J Neurotrauma. 2015 Nov 12. [Epub ahead of print]

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[Arterial spin-labeling MR imaging of cerebral hemorrhages.](#)

Noguchi T, Nishihara M, Egashira Y, Azama S, Hirai T, Kitano I, Yakushiji Y, Kawashima M, Irie H. Neuroradiology. 2015 Nov;57(11):1135-44. doi: 10.1007/s00234-015-1574-9. Epub 2015 Aug 18.

[Different post label delay cerebral blood flow measurements in patients with Alzheimer's disease using 3D arterial spin labeling.](#)

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Abe T, Mizobuchi Y, Sako W, Irahara S, Otomi Y, Obama Y, Nakajima K, Khashbat D, Majigsuren M, Kageji T, Nagahiro S, Harada M. Magn Reson Med Sci. 2015 Nov 13;14(4):313-9. doi: 10.2463/mrms.2014-0083. Epub 2015 Jun 23.

[Asymmetry of cerebral blood flow measured with three-dimensional pseudocontinuous arterial spin-labeling mr imaging in temporal lobe epilepsy with and without mesial temporal sclerosis.](#)

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[Posteromedial hyperactivation during episodic recognition among people with memory decline: findings from the WRAP study.](#)

Nicholas CR, Okonkwo OC, Bendlin BB, Oh JM, Asthana S, Rowley HA, Hermann B, Sager MA, Johnson SC. Brain Imaging Behav. 2015 Dec;9(4):690-702. doi: 10.1007/s11682-014-9322-z.

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[Baseline oxygenation in the brain: Correlation between respiratory-calibration and susceptibility methods.](#)

Fan AP, Schäfer A, Huber L, Lampe L, von Smuda S, Möller HE, Villringer A, Gauthier CJ. Neuroimage. 2015 Nov 5;125:920-931. doi: 10.1016/j.neuroimage.2015.11.007. [Epub ahead of print]

[Humoral Mediators of Remote Ischemic Conditioning: Important Role of eNOS/NO/Nitrite.](#)

Hess DC, Hoda MN, Khan MB. Acta Neurochir Suppl. 2016;121:45-8. doi: 10.1007/978-3-319-18497-5_8.

[Evaluation of cerebral blood flow using multi-phase pseudo continuous arterial spin labeling at 3-tesla.](#)

Sugimori H, Fujima N, Suzuki Y, Hamaguchi H, Sakata M, Kudo K.
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Functional Imaging / BOLD

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Neuroimage. 2015 Nov 5;125:920-931. doi: 10.1016/j.neuroimage.2015.11.007. [Epub ahead of print]

[Reliability comparison of spontaneous brain activities between BOLD and CBF contrasts in eyes-open and eyes-closed resting states.](#)

Zou Q, Miao X, Liu D, Wang DJ, Zhuo Y, Gao JH.
Neuroimage. 2015 Nov 1;121:91-105. doi: 10.1016/j.neuroimage.2015.07.044. Epub 2015 Jul 27.

[Scratching Induces Overactivity in Motor-Related Regions and Reward System in Chronic Itch Patients.](#)

Mochizuki H, Papoiu AD, Nattkemper LA, Lin AC, Kraft RA, Coghill RC, Yosipovitch G.
J Invest Dermatol. 2015 Nov;135(11):2814-23. doi: 10.1038/jid.2015.223. Epub 2015 Jun 15.

[Posteromedial hyperactivation during episodic recognition among people with memory decline: findings from the WRAP study.](#)

Nicholas CR, Okonkwo OC, Bendlin BB, Oh JM, Asthana S, Rowley HA, Hermann B, Sager MA, Johnson SC.
Brain Imaging Behav. 2015 Dec;9(4):690-702. doi: 10.1007/s11682-014-9322-z.

Others CBF Related

[Mastication induces long-term increases in blood perfusion of the trigeminal principal nucleus.](#)

Viggiano A, Manara R, Conforti R, Paccone A, Secondulfo C, Lorusso L, Sbordone L, Di Salle F, Monda M, Tedeschi G, Esposito F.

Neuroscience. 2015 Dec 17;311:75-80. doi: 10.1016/j.neuroscience.2015.10.017. Epub 2015 Oct 21.

[In vivo quantification of hyperoxic arterial blood water T1.](#)

Siero JC, Strother MK, Faraco CC, Hoogduin H, Hendrikse J, Donahue MJ.

NMR Biomed. 2015 Nov;28(11):1518-25. doi: 10.1002/nbm.3411. Epub 2015 Sep 30.

[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. 2016 Jan 1;124(Pt A):433-41. doi: 10.1016/j.neuroimage.2015.09.008. Epub 2015 Sep 10.

[Blood Pressure Is Not Associated With Cerebral Blood Flow in Older Persons.](#)

Foster-Dingley JC, Moonen JE, de Craen AJ, de Ruijter W, van der Mast RC, van der Grond J.

Hypertension. 2015 Nov;66(5):954-60. doi: 10.1161/HYPERTENSIONAHA.115.05799. Epub 2015 Sep 8.

[Whole-Brain N-Acetylaspartate Concentration Is Preserved during Mild Hypercapnia Challenge.](#)

Chawla S, Ge Y, Lu H, Marshall O, Davitz MS, Fatterpekar G, Soher BJ, Gonen O.

AJNR Am J Neuroradiol. 2015 Nov;36(11):2055-61. doi: 10.3174/ajnr.A4424. Epub 2015 Aug 20.

Physiological Parameters besides CBF

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Siero JC, Strother MK, Faraco CC, Hoogduin H, Hendrikse J, Donahue MJ.

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Palomares JA, Tummala S, Wang DJ, Park B, Woo MA, Kang DW, Lawrence KS, Harper RM, Kumar R.

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[Time-efficient determination of spin compartments by time-encoded pCASL T2-relaxation-under-spin-tagging and its application in hemodynamic characterization of the cerebral border zones.](#)

Schmid S, Teeuwisse WM, Lu H, van Osch MJ.

Neuroimage. 2015 Dec;123:72-9. doi: 10.1016/j.neuroimage.2015.08.025. Epub 2015 Aug 19.

Perfusion Studies Other than on the Brain

[Longitudinal Assessment of Renal Perfusion and Oxygenation in Transplant Donor-Recipient Pairs Using Arterial Spin Labeling and Blood Oxygen Level-Dependent Magnetic Resonance Imaging.](#)

Niles DJ, Artz NS, Djamali A, Sadowski EA, Grist TM, Fain SB.
Invest Radiol. 2015 Nov 10. [Epub ahead of print]

[Time course of cardiometabolic alterations in a high fat high sucrose diet mice model and improvement after GLP-1 analog treatment using multimodal cardiovascular magnetic resonance.](#)

Abdesselam I, Pepino P, Troalen T, Macia M, Ancel P, Masi B, Fourny N, Gaborit B, Giannesini B, Kober F, Dutour A, Bernard M.
J Cardiovasc Magn Reson. 2015 Nov 6;17(1):95. doi: 10.1186/s12968-015-0198-x.

[Pituitary metastasis of hepatocellular carcinoma presenting with panhypopituitarism: a case report.](#)

Tanaka T, Hiramatsu K, Nosaka T, Saito Y, Naito T, Takahashi K, Ofuji K, Matsuda H, Ohtani M, Nemoto T, Suto H, Yamamoto T, Kimura H, Nakamoto Y.
BMC Cancer. 2015 Nov 6;15:863. doi: 10.1186/s12885-015-1831-7.

[Diagnostic value of tumor blood flow and its histogram analysis obtained with pCASL to differentiate sinonasal malignant lymphoma from squamous cell carcinoma.](#)

Fujima N, Kameda H, Tsukahara A, Yoshida D, Sakashita T, Homma A, Tha KK, Kudo K, Shirato H.
Eur J Radiol. 2015 Nov;84(11):2187-93. doi: 10.1016/j.ejrad.2015.07.026. Epub 2015 Jul 30.

[Towards the identification of multi-parametric quantitative MRI biomarkers in lupus nephritis.](#)

Rapacchi S, Smith RX, Wang Y, Yan L, Sigalov V, Krasileva KE, Karpouzas G, Plotnik A, Sayre J, Hernandez E, Verma A, Burkly L, Wisniacki N, Torrington J, He X, Hu P, Chiao PC, Wang DJ.
Magn Reson Imaging. 2015 Nov;33(9):1066-74. doi: 10.1016/j.mri.2015.06.019. Epub 2015 Jun 25.

[Perfusion imaging of parotid gland tumours: usefulness of arterial spin labeling for differentiating Warthin's tumours.](#)

Kato H, Kanematsu M, Watanabe H, Kajita K, Mizuta K, Aoki M, Okuaki T.
Eur Radiol. 2015 Nov;25(11):3247-54. doi: 10.1007/s00330-015-3755-7. Epub 2015 Apr 29.

[Feasibility of ASL spinal bone marrow perfusion imaging with optimized inversion time.](#)

Xing D, Zha Y, Yan L, Wang K, Gong W, Lin H.
J Magn Reson Imaging. 2015 Nov;42(5):1314-20. doi: 10.1002/jmri.24891. Epub 2015 Apr 9.

[Temporal assessment of pancreatic blood flow and perfusion following secretin stimulation using noninvasive MRI.](#)

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J Magn Reson Imaging. 2015 Nov;42(5):1233-40. doi: 10.1002/jmri.24889. Epub 2015 Mar 18.

ASL for Angiography

[Evaluation of Intracranial Arteriovenous Malformations With Four-Dimensional Arterial-Spin Labeling-Based 3-T Magnetic Resonance Angiography.](#)

Iryo Y, Hirai T, Nakamura M, Kawano T, Kaku Y, Ohmori Y, Kai Y, Azuma M, Nishimura S, Shigematsu Y, Kitajima M, Yamashita Y.

J Comput Assist Tomogr. 2015 Nov 23. [Epub ahead of print]

[Prospective motion correction and selective reacquisition using volumetric navigators for vessel-encoded arterial spin labeling dynamic angiography.](#)

Frost R, Hess AT, Okell TW, Chappell MA, Tisdall MD, van der Kouwe AJ, Jezzard P.

Magn Reson Med. 2015 Nov 14. doi: 10.1002/mrm.26040. [Epub ahead of print]

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

[ASAP \(Automatic Software for ASL Processing\): A toolbox for processing Arterial Spin Labeling images.](#)

Abad VM, García-Polo P, O'Daly O, Hernández-Tamames JA, Zelaya F.

Magn Reson Imaging. 2015 Nov 20. pii: S0730-725X(15)00275-1. doi:

10.1016/j.mri.2015.11.002. [Epub ahead of print]

[Diagnostic value of tumor blood flow and its histogram analysis obtained with pCASL to differentiate sinonasal malignant lymphoma from squamous cell carcinoma.](#)

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Eur J Radiol. 2015 Nov;84(11):2187-93. doi: 10.1016/j.ejrad.2015.07.026. Epub 2015 Jul 30.

[The Cerebral Blood Flow Biomedical Informatics Research Network \(CBFBIRN\) data repository.](#)

Shin DD, Ozyurt IB, Brown GG, Fennema-Notestine C, Liu TT.

Neuroimage. 2016 Jan 1;124(Pt B):1202-7. doi: 10.1016/j.neuroimage.2015.05.059. Epub 2015 May 30.

[Voxel-Wise Functional Connectomics Using Arterial Spin Labeling Functional Magnetic Resonance Imaging: The Role of Denoising.](#)

Liang X, Connelly A, Calamante F.

[Automated removal of spurious intermediate cerebral blood flow volumes improves image quality among older patients: A clinical arterial spin labeling investigation.](#)

Shirzadi Z, Crane DE, Robertson AD, Maralani PJ, Aviv RI, Chappell MA, Goldstein BI, Black SE, MacIntosh BJ.

J Magn Reson Imaging. 2015 Nov;42(5):1377-85. doi: 10.1002/jmri.24918. Epub 2015 Apr 15

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[An Optimized Encoding Scheme for Planning Vessel-Encoded Pseudocontinuous Arterial Spin Labeling.](#)

Berry ES, Jezzard P, Okell TW.
Magn Reson Med. 2015 Nov;74(5):1248-56. doi: 10.1002/mrm.25508. Epub 2014 Oct 28.

ASL at Field Strength > 3T

[Evaluation of EPI distortion correction methods for quantitative MRI of the brain at high magnetic field.](#)

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