

Dear Colleagues,

Here is the ASL Newsletter No. 50.

Kind regards,

Ina

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

### Content:

Animal Studies.....	2
Pharmacological / Drug Studies / Studies on the Effects of Therapies.....	2
Perfusion Studies Other than on the Brain .....	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
Physiological Parameters besides CBF.....	7
Reproducibility Studies.....	8
ASL Data Analysis/ Comparison of ASL Evaluation Methods/ Kinetic Models/ Data Corrections.....	8
Technical Improvement/ Parameter Optimisation/ Theoretical Papers .....	8
Review Paper/ Historical Review .....	9
Job offerings.....	9
Feature articles.....	9

# Animal Studies

## [Increased Brain Perfusion Persists over the First Month of Life in Term Asphyxiated Newborns Treated with Hypothermia: Does it Reflect Activated Angiogenesis?](#)

Shaikh H, Lechpammer M, Jensen FE, Warfield SK, Hansen AH, Kosaras B, Shevell M, Wintermark P.

Transl Stroke Res. 2015 Jan 27. [Epub ahead of print]

## [Detection of ischemic penumbra using combined perfusion and T2\\* oxygen challenge imaging.](#)

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# Pharmacological / Drug Studies / Studies on the Effects of Therapies

## [Reproducibility of pharmacological ASL using sequences from different vendors: implications for multicenter drug studies.](#)

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## [Cerebral perfusion in insulin resistance and type 2 diabetes.](#)

Rusinek H, Ha J, Yau PL, Storey P, Tirsi A, Tsui WH, Frosch O, Azova S, Convit A.

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## [Regional quantification of cerebral venous oxygenation from MRI susceptibility during hypercapnia.](#)

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## [Neuronal activation induced BOLD and CBF responses upon acetazolamide administration in patients with steno-occlusive artery disease.](#)

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## [Dose-dependent effects of intravenous alcohol administration on cerebral blood flow in young adults.](#)

Strang NM, Claus ED, Ramchandani VA, Graff-Guerrero A, Boileau I, Hendershot CS.

Psychopharmacology (Berl). 2015 Feb;232(4):733-44. doi: 10.1007/s00213-014-3706-z. Epub 2014 Aug 12.

# Perfusion Studies Other than on the Brain

[Measuring renal tissue relaxation times at 7 T.](#)

Li X, Bolan PJ, Ugurbil K, Metzger GJ.

NMR Biomed. 2015 Jan;28(1):63-9. doi: 10.1002/nbm.3195. Epub 2014 Oct 23.

## Cerebral Blood Flow Studies

### CBF Correlation with Age/ Pediatric Studies

[Arterial spin labeling magnetic resonance imaging: toward noninvasive diagnosis and follow-up of pediatric brain arteriovenous malformations.](#)

Blauwblomme T, Naggara O, Brunelle F, Grévent D, Puget S, Di Rocco F, Beccaria K, Paternoster G, Bourgeois M, Kossorotoff M, Zerah M, Sainte-Rose C, Boddaert N. J Neurosurg Pediatr. 2015 Jan 30:1-8. [Epub ahead of print]

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[Neural mechanisms of brain plasticity with complex cognitive training in healthy seniors.](#)

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[Advances in Pediatric Neuroimaging.](#)

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[Decomposing cerebral blood flow MRI into functional and structural components: a non-local approach based on prediction.](#)

Kandel BM, Wang DJ, Detre JA, Gee JC, Avants BB.

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### CBF Regional Comparison/ Regional ASL

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Qian S, Li M, Li G, Liu K, Li B, Jiang Q, Li L, Yang Z, Sun G.

Behav Brain Res. 2015 Mar 1;280:6-15. doi: 10.1016/j.bbr.2014.11.036. Epub 2014 Nov 28.

## Studies on Special Disease

### [Multiphase Arterial Spin Labeling Assessment of Cerebral Perfusion Changes Associated with Middle Cerebral Artery Stenosis.](#)

Chen J, Zhao B, Bai M, Bu C.

Acad Radiol. 2015 Jan 27. pii: S1076-6332(15)00006-9. doi: 10.1016/j.acra.2014.12.016. [Epub ahead of print]

### [Arterial spin labeling magnetic resonance imaging: toward noninvasive diagnosis and follow-up of pediatric brain arteriovenous malformations.](#)

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Neuroimage Clin. 2014 Dec 3;7:213-21. doi: 10.1016/j.nicl.2014.12.002. eCollection 2015.

### [Clinical Utility of Arterial Spin-Labeling as a Confirmatory Test for Suspected Brain Death.](#)

Kang KM, Yun TJ, Yoon BW, Jeon BS, Choi SH, Kim JH, Kim JE, Sohn CH, Han MH.

AJNR Am J Neuroradiol. 2015 Jan 8. [Epub ahead of print]

### [Postischemic hyperperfusion on arterial spin labeled perfusion MRI is linked to hemorrhagic transformation in stroke.](#)

Yu S, Liebeskind DS, Dua S, Wilhalme H, Elashoff D, Qiao XJ, Alger JR, Sanossian N, Starkman S, Ali LK, Scalzo F, Lou X, Yoo B, Saver JL, Salamon N, Wang DJ; for UCLA Stroke Investigators.

J Cereb Blood Flow Metab. 2015 Jan 7. doi: 10.1038/jcbfm.2014.238. [Epub ahead of print]

### [Bright vessel appearance on arterial spin labeling MRI for localizing arterial occlusion in acute ischemic stroke.](#)

Yoo RE, Yun TJ, Rhim JH, Yoon BW, Kang KM, Choi SH, Kim JH, Kim JE, Kang HS, Sohn CH, Han MH.

Stroke. 2015 Feb;46(2):564-7. doi: 10.1161/STROKEAHA.114.007797. Epub 2014 Dec 18.

[Neural correlates of planning performance in patients with schizophrenia - Relationship with apathy.](#)

Liemburg EJ, Dlabac-De Lange JJ, Bais L, Knegtering H, van Osch MJ, Renken RJ, Aleman A.

Schizophr Res. 2015 Feb;161(2-3):367-75. doi: 10.1016/j.schres.2014.11.028. Epub 2014 Dec 10.

[Right arcuate fasciculus abnormality in chronic fatigue syndrome.](#)

Zeineh MM, Kang J, Atlas SW, Raman MM, Reiss AL, Norris JL, Valencia I, Montoya JG.

Radiology. 2015 Feb;274(2):517-26. doi: 10.1148/radiol.14141079. Epub 2014 Oct 29.

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[Multivariate decoding of cerebral blood flow measures in a clinical model of on-going postsurgical pain.](#)

O'Muircheartaigh J, Marquand A, Hodkinson DJ, Krause K, Khawaja N, Renton TF, Huggins JP, Vennart W, Williams SC, Howard MA.

Hum Brain Mapp. 2015 Feb;36(2):633-42. doi: 10.1002/hbm.22652. Epub 2014 Oct 12.

[Arterial spin labeling may contribute to the prediction of cognitive deterioration in healthy elderly individuals.](#)

Xekardaki A, Rodriguez C, Montandon ML, Toma S, Tombeur E, Herrmann FR, Zekry D, Lovblad KO, Barkhof F, Giannakopoulos P, Haller S.

Radiology. 2015 Feb;274(2):490-9. doi: 10.1148/radiol.14140680. Epub 2014 Oct 7.

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[Feasibility of simultaneous whole-brain imaging on an integrated PET-MRI system using an enhanced 2-point Dixon attenuation correction method.](#)

Anazodo UC, Thiessen JD, Ssali T, Mandel J, Günther M, Butler J, Pavlosky W, Prato FS, Thompson RT, St Lawrence KS.  
Front Neurosci. 2015 Jan 5;8:434. doi: 10.3389/fnins.2014.00434. eCollection 2014.

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## Functional Imaging / BOLD

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[Resting high-frequency heart rate variability is related to resting brain perfusion.](#)

Allen B, Jennings JR, Gianaros PJ, Thayer JF, Manuck SB.

Psychophysiology. 2015 Feb;52(2):277-87. doi: 10.1111/psyp.12321. Epub 2014 Sep 1.

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## Case Reports

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J Clin Neurosci. 2015 Jan;22(1):204-6. doi: 10.1016/j.jocn.2014.05.040. Epub 2014 Sep 11.

## Technical Improvement/ Parameter Optimisation/ Theoretical Papers

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IEEE Trans Med Imaging. 2015 Jan 21. [Epub ahead of print]



[Theoretical and experimental evaluation of multi-band EPI for high-resolution whole brain pCASL Imaging.](#)

Li X, Wang D, Auerbach EJ, Moeller S, Ugurbil K, Metzger GJ.

Neuroimage. 2015 Feb 1;106:170-81. doi: 10.1016/j.neuroimage.2014.10.029. Epub 2014 Oct 23.

## Review Paper/ Historical Review

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Indian J Pediatr. 2015 Jan 6. [Epub ahead of print]

## Job offerings

If you have any vacancies please send them to [jobs@asl-network.org](mailto:jobs@asl-network.org)

## Feature articles

If you would like to write a comment on an interesting article mail it to [editor@asl-network.org](mailto:editor@asl-network.org)