

Dear Colleagues,

Here is the ASL Newsletter No. 47.

Kind regards,  
Ina

## Recent publications October 2014, (e-publications might have been earlier):

### Content:

Pharmacological / Drug Studies / Studies on the Effects of Therapies.....	2
Perfusion Studies Other than on the Brain .....	2
Cerebral Blood Flow Studies .....	3
CBF Correlation with Age.....	3
CBF Regional Comparison/ Regional ASL.....	3
Studies on Special Disease.....	3
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
Case Reports.....	8
Technical Improvement/ Parameter Optimisation/ Theoretical Papers .....	8
Review Paper/ Historical Review .....	9
Job offerings.....	9
Feature articles.....	9

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

## [Evaluation of the Antiangiogenic Effects of Octreotide on Growth Hormone-producing Pituitary Adenoma using Arterial Spin-labeling Perfusion Imaging.](#)

Sakai N, Yamashita S, Takehara Y, Sakahara H, Baba S, Oki Y, Takahashi G, Koizumi S, Sameshima T, Namba H.

Magn Reson Med Sci. 2014 Oct 27. [Epub ahead of print]

## [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.

J Cereb Blood Flow Metab. 2014 Oct 15. doi: 10.1038/jcbfm.2014.173. [Epub ahead of print]

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

Fan AP, Evans KC, Stout JN, Rosen BR, Adalsteinsson E.

Neuroimage. 2014 Oct 6. pii: S1053-8119(14)00810-6. doi: 10.1016/j.neuroimage.2014.09.068. [Epub ahead of print]

## [Nicotine and non-nicotine smoking factors differentially modulate craving, withdrawal and cerebral blood flow as measured with arterial spin labeling.](#)

Addicott MA, Froeliger B, Kozink RV, Van Wert DM, Westman EC, Rose JE, McClernon FJ. Neuropsychopharmacology. 2014 Nov;39(12):2750-9. doi: 10.1038/npp.2014.108. Epub 2014 May 13.

# Perfusion Studies Other than on the Brain

## [Arterial spin labeling to determine tumor viability in head and neck cancer before and after treatment.](#)

Fujima N, Kudo K, Yoshida D, Homma A, Sakashita T, Tsukahara A, Khin Khin Tha, Yuri Zaitzu, Satoshi Terae, Hiroki Shirato.

J Magn Reson Imaging. 2014 Oct;40(4):920-8.

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

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NMR Biomed. 2014 Oct 23. doi: 10.1002/nbm.3195. [Epub ahead of print]

## [Perfusion measurements of the calf in patients with peripheral arterial occlusive disease before and after percutaneous transluminal angioplasty using MR arterial spin labeling.](#)

Grözinger G, Pohmann R, Schick F, Grosse U, Syha R, Brechtel K, Rittig K, Martirosian P. J Magn Reson Imaging. 2014 Oct;40(4):980-7. doi: 10.1002/jmri.24463. Epub 2013 Nov 15.

# Cerebral Blood Flow Studies

## CBF Correlation with Age

[Accelerated white matter aging in schizophrenia: role of white matter blood perfusion.](#)

Wright SN, Kochunov P, Chiappelli J, McMahon RP, Muellerklein F, Wijtenburg SA, White MG, Rowland LM, Hong LE.

Neurobiol Aging. 2014 Oct;35(10):2411-8. doi: 10.1016/j.neurobiolaging.2014.02.016. Epub 2014 Feb 28.

## CBF Regional Comparison/ Regional ASL

[An optimized encoding scheme for planning vessel-encoded pseudocontinuous arterial spin labeling.](#)

Berry ES, Jezzard P, Okell TW.

Magn Reson Med. 2014 Oct 28. doi: 10.1002/mrm.25508. [Epub ahead of print]

[Crossed cerebellar diaschisis detected by arterial spin-labeled perfusion magnetic resonance imaging in subacute ischemic stroke.](#)

Chen S, Guan M, Lian HJ, Ma LJ, Shang JK, He S, Ma MM, Zhang ML, Li ZY, Wang MY, Shi DP, Zhang JW.

J Stroke Cerebrovasc Dis. 2014 Oct;23(9):2378-83. doi: 10.1016/j.jstrokecerebrovasdis.2014.05.009. Epub 2014 Aug 31.

## Studies on Special Disease

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J Magn Reson Imaging. 2014 Oct;40(4):920-8.

[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. 2014 Oct 29:141079. [Epub ahead of print]

[Evaluation of the Antiangiogenic Effects of Octreotide on Growth Hormone-producing Pituitary Adenoma using Arterial Spin-labeling Perfusion Imaging.](#)

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

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J Cereb Blood Flow Metab. 2014 Oct 15. doi: 10.1038/jcbfm.2014.173. [Epub ahead of print]

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

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

Hum Brain Mapp. 2014 Oct 12. doi: 10.1002/hbm.22652. [Epub ahead of print]

[Intra-Arterial Signal on Arterial Spin Labeling Perfusion MRI to Identify the Presence of Acute Middle Cerebral Artery Occlusion.](#)

Tada Y, Satomi J, Abe T, Kuwayama K, Sogabe S, Fujita K, Yamamoto N, Kaji R, Harada M, Nagahiro S.

Cerebrovasc Dis. 2014 Oct 9;38(3):191-196. [Epub ahead of print]

[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. 2014 Oct 7:140680. [Epub ahead of print]

[Spectroscopy of reperfused tissue after stroke reveals heightened metabolism in patients with good clinical outcomes.](#)

Bivard A, Krishnamurthy V, Stanwell P, Yassi N, Spratt NJ, Nilsson M, Levi CR, Davis S, Parsons MW.

J Cereb Blood Flow Metab. 2014 Oct 1. doi: 10.1038/jcbfm.2014.166. [Epub ahead of print]

[Utility of susceptibility-weighted imaging and arterial spin perfusion imaging in pediatric brain arteriovenous shunting.](#)

Nabavizadeh SA, Edgar JC, Vossough A.

Neuroradiology. 2014 Oct;56(10):877-84. doi: 10.1007/s00234-014-1408-1. Epub 2014 Jul 27.

[Pseudo-continuous arterial spin labeling quantifies cerebral blood flow in patients with acute ischemic stroke and chronic lacunar stroke.](#)

Guo L, Zhang Q, Ding L, Liu K, Ding K, Jiang C, Liu C, Li K, Cui L.

Clin Neurol Neurosurg. 2014 Oct;125:229-36. doi: 10.1016/j.clineuro.2014.08.017. Epub 2014 Aug 20.

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[Impaired cerebrovascular reactivity in multiple sclerosis.](#)

Marshall O, Lu H, Brisset JC, Xu F, Liu P, Herbert J, Grossman RI, Ge Y.

JAMA Neurol. 2014 Oct 1;71(10):1275-81. doi: 10.1001/jamaneurol.2014.1668.

[Assesment of perfusion in glial tumors with arterial spin labeling; comparison with dynamic susceptibility contrast method.](#)

Cebeci H, Aydin O, Ozturk-Isik E, Gumus C, Inecikli F, Bekar A, Kocaeli H, Hakyemez B. Eur J Radiol. 2014 Oct;83(10):1914-9. doi: 10.1016/j.ejrad.2014.07.002. Epub 2014 Jul 15.

[Diffusion tensor magnetic resonance imaging for predicting the consistency of intracranial meningiomas.](#)

Romani R, Tang WJ, Mao Y, Wang DJ, Tang HL, Zhu FP, Che XM, Gong Y, Zheng K, Zhong P, Li SQ, Bao WM, Benner C, Wu JS, Zhou LF.

Acta Neurochir (Wien). 2014 Oct;156(10):1837-45. doi: 10.1007/s00701-014-2149-y. Epub 2014 Jul 8.

[Voxel-based morphometry and arterial spin labeling fMRI reveal neuropathic and neuroplastic features of brain processing of itch in end-stage renal disease.](#)

Papoiu AD, Emerson NM, Patel TS, Kraft RA, Valdes-Rodriguez R, Nattkemper LA, Coghill RC, Yosipovitch G.

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[Phenotype matters: the absence of a positive association between cortical thinning and chronic low back pain when controlling for salient clinical variables.](#)

Dolman AJ, Loggia ML, Edwards RR, Gollub RL, Kong J, Napadow V, Wasan AD.

Clin J Pain. 2014 Oct;30(10):839-45. doi: 10.1097/AJP.000000000000043.

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

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[Investigation of brain hemodynamic changes induced by active and passive movements: a combined arterial spin labeling-BOLD fMRI study.](#)

Boscolo Galazzo I, Storti SF, Formaggio E, Pizzini FB, Fiaschi A, Beltramello A, Bertoldo A, Manganotti P.  
J Magn Reson Imaging. 2014 Oct;40(4):937-48. doi: 10.1002/jmri.24432. Epub 2013 Nov 4.

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## Reproducibility Studies

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J Cereb Blood Flow Metab. 2014 Oct 1. doi: 10.1038/jcbfm.2014.163. [Epub ahead of print]

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

### [Modeling magnetization transfer effects of Q2TIPS bolus saturation in multi-TI pulsed arterial spin labeling.](#)

Petr J, Schramm G, Hofheinz F, Langner J, van den Hoff J.  
Magn Reson Med. 2014 Oct;72(4):1007-14. doi: 10.1002/mrm.25011. Epub 2013 Nov 5.

## Case Reports

### [Evaluation of the Antiangiogenic Effects of Octreotide on Growth Hormone-producing Pituitary Adenoma using Arterial Spin-labeling Perfusion Imaging.](#)

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## Technical Improvement/ Parameter Optimisation/ Theoretical Papers

### [An optimized encoding scheme for planning vessel-encoded pseudocontinuous arterial spin labeling.](#)

Berry ES, Jezzard P, Okell TW.  
Magn Reson Med. 2014 Oct 28. doi: 10.1002/mrm.25508. [Epub ahead of print]



### [Blood tracer kinetics in the arterial tree.](#)

Kellner E, Gall P, Günther M, Reisert M, Mader I, Fleysher R, Kiselev VG.  
PLoS One. 2014 Oct 9;9(10):e109230. doi: 10.1371/journal.pone.0109230. eCollection 2014.

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J Cereb Blood Flow Metab. 2014 Oct 1. doi: 10.1038/jcbfm.2014.163. [Epub ahead of print]

### [Evaluation of segmented 3D acquisition schemes for whole-brain high-resolution arterial spin labeling at 3 T.](#)

Vidorreta M, Balteau E, Wang Z, De Vita E, Pastor MA, Thomas DL, Detre JA, Fernández-Seara MA.  
NMR Biomed. 2014 Nov;27(11):1387-96. doi: 10.1002/nbm.3201. Epub 2014 Sep 26.

### [Pseudocontinuous arterial spin labeling with prospective motion correction \(PCASL-PROMO\).](#)

Zun Z, Shankaranarayanan A, Zaharchuk G.  
Magn Reson Med. 2014 Oct;72(4):1049-56. doi: 10.1002/mrm.25024. Epub 2013 Nov 14.

## Review Paper/ Historical Review

### [Assessment of collateral flow in patients with cerebrovascular disorders.](#)

Donahue J, Sumer S, Wintermark M.  
J Neuroradiol. 2014 Oct;41(4):234-42. doi: 10.1016/j.neurad.2013.11.002. Epub 2013 Dec 30.

## 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)