

Dear Colleagues,

Here is the ASL Newsletter No. 40.

We would like to invite you to this years' ASL Network Dinner at the ISMRM in Milan, which will be sponsored by



As with every year this dinner offers a great opportunity to network with colleagues from the ASL community.

Date: Sunday, May 11th 2014, 8:00 pm

Venue: *Trattoria La Tradizionale* – Via Bergognone, 16 – 20144 Milano

If you would like to join, please send an email to [editor@asl-network.org](mailto:editor@asl-network.org) latest until **April 28th 2014**.

Kind regards,  
Ina

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

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## Animal Studies

[Correlation of oxygenation and perfusion sensitive MRI with invasive micro probe measurements in healthy mice brain.](#)

Sedlacik J, Reitz M, Bolar DS, Adalsteinsson E, Schmidt NO, Fiehler J.  
Z Med Phys. 2014 Mar 10. pii: S0939-3889(14)00019-1. doi:  
10.1016/j.zemedi.2014.01.004. [Epub ahead of print]

[Rate and extent of leakage of a magnetic resonance contrast agent tend to be lower under isoflurane anesthesia in comparison to halothane in a rat model of embolic stroke.](#)

Bezerra FJ, Brown M, Alarcon W, Karki K, Knight RA, Keenan KA, Nagaraja TN.  
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## Pharmacological / Drug Studies / Studies on the Effects of Therapies

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[Caffeine alters resting-state functional connectivity measured by blood oxygenation level-dependent MRI.](#)

Wu WC, Lien SH, Chang JH, Yang SC.  
NMR Biomed. 2014 Apr;27(4):444-52. doi: 10.1002/nbm.3080. Epub 2014 Jan 30.

[Acute effects of alcohol on brain perfusion monitored with arterial spin labeling magnetic resonance imaging in young adults.](#)

Marxen M, Gan G, Schwarz D, Mennigen E, Pilhatsch M, Zimmermann US, Guenther M, Smolka MN.  
J Cereb Blood Flow Metab. 2014 Mar;34(3):472-9. doi: 10.1038/jcbfm.2013.223. Epub 2014 Jan 8.

[Sex differences in resting state neural networks of nicotine-dependent cigarette smokers.](#)

Wetherill RR, Jagannathan K, Shin J, Franklin TR.  
Addict Behav. 2014 Apr;39(4):789-92. doi: 10.1016/j.addbeh.2014.01.006. Epub 2014 Jan 24.

## Perfusion Studies Other than on the Brain

[Comparison of magnetic resonance imaging with radionuclide methods of evaluating the kidney.](#)

Durand E.  
Semin Nucl Med. 2014 Mar;44(2):82-92. doi: 10.1053/j.semnuclmed.2013.10.003.

# Cerebral Blood Flow Studies

## CBF Correlation with Age

[Regional cerebral blood flow in children from 3 to 5 months of age.](#)

Duncan AF, Caprihan A, Montague EQ, Lowe J, Schrader R, Phillips JP.

AJNR Am J Neuroradiol. 2014 Mar;35(3):593-8. doi: 10.3174/ajnr.A3728. Epub 2013 Oct 3.

[Reliability of two-dimensional and three-dimensional pseudo-continuous arterial spin labeling perfusion MRI in elderly populations: Comparison with 15o-water positron emission tomography.](#)

Kilroy E, Apostolova L, Liu C, Yan L, Ringman J, Wang DJ.

J Magn Reson Imaging. 2014 Apr;39(4):931-9. doi: 10.1002/jmri.24246. Epub 2013 Sep 13.

[Cerebral Blood Flow is Diminished in Asymptomatic Middle-Aged Adults with Maternal History of Alzheimer's Disease.](#)

Okonkwo OC, Xu G, Oh JM, Dowling NM, Carlsson CM, Gallagher CL, Birdsill AC, Palotti M, Wharton W, Hermann BP, Larue A, Bendlin BB, Rowley HA, Asthana S, Sager MA, Johnson SC.

Cereb Cortex. 2014 Apr;24(4):978-88. doi: 10.1093/cercor/bhs381. Epub 2012 Dec 12.

## CBF Regional Comparison/ Regional ASL

[Cardiopulmonary fitness correlates with regional cerebral grey matter perfusion and density in men with coronary artery disease.](#)

Macintosh BJ, Swardfager W, Crane DE, Ranepura N, Saleem M, Oh PI, Stefanovic B, Herrmann N, Lanctôt KL.

PLoS One. 2014 Mar 12;9(3):e91251. doi: 10.1371/journal.pone.0091251. eCollection 2014.

[Comparing cerebral perfusion in Alzheimer's disease and Parkinson's disease dementia: an ASL-MRI study.](#)

Le Heron CJ, Wright SL, Melzer TR, Myall DJ, Macaskill MR, Livingston L, Keenan RJ, Watts R, Dalrymple-Alford JC, Anderson TJ.

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[Differential brain activity in subjects with painful trigeminal neuropathy and painful temporomandibular disorder.](#)

Youssef AM, Gustin SM, Nash PG, Reeves JM, Petersen ET, Peck CC, Murray GM, Henderson LA.  
Pain. 2014 Mar;155(3):467-75. doi: 10.1016/j.pain.2013.11.008. Epub 2013 Nov 21.

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Mungunghuyag M, Harada M, Abe T, Fujita K, Matsui N, Kaji R.  
Magn Reson Med Sci. 2014 Mar 24;13(1):55-9. Epub 2014 Jan 31.

[Intracranial Dural Arteriovenous Fistulas: Evaluation with 3-T Four-dimensional MR Angiography Using Arterial Spin Labeling.](#)

Iryo Y, Hirai T, Kai Y, Nakamura M, Shigematsu Y, Kitajima M, Azuma M, Komi M, Morita K, Yamashita Y.  
Radiology. 2014 Apr;271(1):193-9. doi: 10.1148/radiol.13122670. Epub 2013 Nov 21.

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Furtner J, Schöpf V, Schewzow K, Kasprian G, Weber M, Woitek R, Asenbaum U, Preusser M, Marosi C, Hainfellner JA, Widhalm G, Wolfsberger S, Prayer D.

AJNR Am J Neuroradiol. 2014 Mar;35(3):482-9. doi: 10.3174/ajnr.A3705. Epub 2013 Aug 14.

[Hypoperfusion and T1-hypointense lesions in white matter in multiple sclerosis.](#)

Narayana PA, Zhou Y, Hasan KM, Datta S, Sun X, Wolinsky JS.

Mult Scler. 2014 Mar;20(3):365-73. doi: 10.1177/1352458513495936. Epub 2013 Jul 8.

[Normalization of cerebral vasoreactivity using BOLD MRI after intravascular stenting.](#)

Attyé A, Villien M, Tahon F, Warnking J, Detante O, Krainik A.

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

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

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Sedlacik J, Reitz M, Bolar DS, Adalsteinsson E, Schmidt NO, Fiehler J.  
Z Med Phys. 2014 Mar 10. pii: S0939-3889(14)00019-1. doi:  
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## Functional Imaging / BOLD

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Z Med Phys. 2014 Mar 10. pii: S0939-3889(14)00019-1. doi:  
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Petr J, Ferré JC, Raoult H, Bannier E, Gauvrit JY, Barillot C.  
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### [Spatial heterogeneity of the relation between resting-state connectivity and blood flow: an important consideration for pharmacological studies.](#)

Khalili-Mahani N, van Osch MJ, de Rooij M, Beckmann CF, van Buchem MA, Dahan A, van Gerven JM, Rombouts SA.  
Hum Brain Mapp. 2014 Mar;35(3):929-42. doi: 10.1002/hbm.22224. Epub 2012 Dec 26.

## Physiological Parameters besides CBF

### [Mapping of arterial transit time by intravascular signal selection.](#)

Mildner T, Müller K, Hetzer S, Trampel R, Driesel W, Möller HE.  
NMR Biomed. 2014 Mar 9. doi: 10.1002/nbm.3098. [Epub ahead of print]

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

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## Case Reports

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## Technical Improvement/ Parameter Optimisation/ Theoretical Papers

[Arterial spin-labeling assessment of normalized vascular intratumoral signal intensity as a predictor of histologic grade of astrocytic neoplasms.](#)

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AJNR Am J Neuroradiol. 2014 Mar;35(3):482-9. doi: 10.3174/ajnr.A3705. Epub 2013 Aug 14.

## Review Paper/ Historical Review

### 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)