

Dear Colleagues,

Here is the ASL Newsletter No. 31.

Kind regards,  
Ina

## Recent publications

June 2013,

(e-publications might have been earlier):

### Content:

Animal studies .....	2
Pharmacological / Drug studies .....	2
Perfusion studies other than on the brain .....	2
Cerebral blood flow studies .....	2
CBF regional comparison .....	2
Comparison of ASL Techniques or ASL compared with other Imaging methods.....	5
Physiological Parameters besides CBF .....	6
Technical Improvement/ Parameter Optimisation/ Theoretical Papers .....	7
Review Paper/ Historical Review .....	7
Job offerings .....	7
Feature articles.....	7

## Animal studies

[Cortical atrophy and hypoperfusion in a transgenic mouse model of Alzheimer's disease.](#)

Hébert F, Grand'maison M, Ho MK, Lerch JP, Hamel E, Bedell BJ.

Neurobiol Aging. 2013 Jun;34(6):1644-52. doi: 10.1016/j.neurobiolaging.2012.11.022.

Epub 2012 Dec 27.

[Cerebral blood flow changes after brain injury in human amyloid-beta knock-in mice.](#)

Abrahamson EE, Foley LM, Dekosky ST, Kevin Hitchens T, Ho C, Kochanek PM, Ikonomic MD.

J Cereb Blood Flow Metab. 2013 Jun;33(6):826-33. doi: 10.1038/jcbfm.2013.24. Epub

2013 Feb 27.

## Pharmacological / Drug studies

[The effect of black tea and caffeine on regional cerebral blood flow measured with arterial spin labeling.](#)

Vidyasagar R, Greyling A, Draijer R, Corfield DR, Parkes LM.

J Cereb Blood Flow Metab. 2013 Jun;33(6):963-8. doi: 10.1038/jcbfm.2013.40. Epub 2013

Mar 13.

## Perfusion studies other than on the brain

[Quantitative assessment of acute kidney injury by noninvasive arterial spin labeling perfusion MRI: a pilot study.](#)

Dong J, Yang L, Su T, Yang X, Chen B, Zhang J, Wang X, Jiang X.

Sci China Life Sci. 2013 Jun 5. [Epub ahead of print]

[Decreased retinal-choroidal blood flow in retinitis pigmentosa as measured by MRI.](#)

Zhang Y, Harrison JM, Nateras OS, Chalfin S, Duong TQ.

Doc Ophthalmol. 2013 Jun;126(3):187-97. doi: 10.1007/s10633-013-9374-1. Epub 2013

Feb 14.

## Cerebral blood flow studies

### CBF regional comparison

[Anteroposterior perfusion heterogeneity in human hippocampus measured by arterial spin labeling MRI.](#)

Li X, Sarkar SN, Purdy DE, Spence JS, Haley RW, Briggs RW.

NMR Biomed. 2013 Jun;26(6):613-21. doi: 10.1002/nbm.2898. Epub 2013 Feb 19.

[Repeated measurements of cerebral blood flow in the left superior temporal gyrus reveal tonic hyperactivity in patients with auditory verbal hallucinations: a possible trait marker.](#)

Homan P, Kindler J, Hauf M, Walther S, Hubl D, Dierks T.  
Front Hum Neurosci. 2013 Jun 25;7:304. Print 2013.

[Abnormalities of cerebral blood flow in multiple sclerosis: A pseudocontinuous arterial spin labeling MRI study.](#)

Ota M, Sato N, Nakata Y, Ito K, Kamiya K, Maikusa N, Ogawa M, Okamoto T, Obu S, Noda T, Araki M, Yamamura T, Kunugi H.  
Magn Reson Imaging. 2013 Jul;31(6):990-5. doi: 10.1016/j.mri.2013.03.016. Epub 2013 Apr 11.

[The effect of black tea and caffeine on regional cerebral blood flow measured with arterial spin labeling.](#)

Vidyasagar R, Greyling A, Draijer R, Corfield DR, Parkes LM.  
J Cereb Blood Flow Metab. 2013 Jun;33(6):963-8. doi: 10.1038/jcbfm.2013.40. Epub 2013 Mar 13.

## Studies on special diseases

[Cerebral perfusion alterations in epileptic patients during peri-ictal and post-ictal phase: PASL vs DSC-MRI.](#)

Pizzini FB, Farace P, Manganotti P, Zoccatelli G, Bongiovanni LG, Golay X, Beltramello A, Osculati A, Bertini G, Fabene PF.

Magn Reson Imaging. 2013 Jul;31(6):1001-5. doi: 10.1016/j.mri.2013.03.023. Epub 2013 Apr 24.

[Neural correlates of mindfulness meditation-related anxiety relief.](#)

Zeidan F, Martucci KT, Kraft RA, McHaffie JG, Coghill RC.

Soc Cogn Affect Neurosci. 2013 Jun 3. [Epub ahead of print]

[Cerebral hyperperfusion syndrome after revascularization surgery in patients with moyamoya disease.](#)

Zhao WG, Luo Q, Jia JB, Yu JL.

Br J Neurosurg. 2013 Jun;27(3):321-5. doi: 10.3109/02688697.2012.757294. Epub 2013 Mar 5.

[Pain response measured with arterial spin labeling.](#)

Maleki N, Brawn J, Barmettler G, Borsook D, Becerra L.

NMR Biomed. 2013 Jun;26(6):664-73. doi: 10.1002/nbm.2911. Epub 2013 Jan 15.

[Cortical atrophy and hypoperfusion in a transgenic mouse model of Alzheimer's disease.](#)

Hébert F, Grand'maison M, Ho MK, Lerch JP, Hamel E, Bedell BJ.

Neurobiol Aging. 2013 Jun;34(6):1644-52. doi: 10.1016/j.neurobiolaging.2012.11.022. Epub 2012 Dec 27.

[Reliability analysis of the resting state can sensitively and specifically identify the presence of Parkinson disease.](#)

Skidmore FM, Yang M, Baxter L, von Deneen KM, Collingwood J, He G, White K, Korenkevych D, Savenkov A, Heilman KM, Gold M, Liu Y. Neuroimage. 2013 Jul 15;75:249-61. doi: 10.1016/j.neuroimage.2011.06.056. Epub 2011 Sep 6.

[Repeated measurements of cerebral blood flow in the left superior temporal gyrus reveal tonic hyperactivity in patients with auditory verbal hallucinations: a possible trait marker.](#)

Homan P, Kindler J, Hauf M, Walther S, Hubl D, Dierks T. Front Hum Neurosci. 2013 Jun 25;7:304. Print 2013.

[Effects of dietary glycemic index on brain regions related to reward and craving in men.](#)

Lennerz BS, Alsop DC, Holsen LM, Stern E, Rojas R, Ebbeling CB, Goldstein JM, Ludwig DS. Am J Clin Nutr. 2013 Jun 26. [Epub ahead of print]

[Evaluation of perinatal arterial ischemic stroke using non-invasive arterial spin labeling perfusion MR imaging.](#)

De Vis JB, Petersen ET, Kersbergen KJ, Alderliesten T, de Vries LS, van Bel F, Groenendaal F, Lemmers PM, Hendrikse J, Benders MJ. Pediatr Res. 2013 Jun 24. doi: 10.1038/pr.2013.111. [Epub ahead of print]

[Combining ESI, ASL and PET for quantitative assessment of drug-resistant focal epilepsy.](#)

Storti SF, Galazzo IB, Del Felice A, Pizzini FB, Arcaro C, Formaggio E, Mai R, Manganotti P. Neuroimage. 2013 Jun 17. doi:pii: S1053-8119(13)00665-4. 10.1016/j.neuroimage.2013.06.028. [Epub ahead of print]

[Effect of Delayed Transit Time on Arterial Spin Labeling: Correlation With Dynamic Susceptibility Contrast Perfusion Magnetic Resonance in Moyamoya Disease.](#)

Yun TJ, Sohn CH, Han MH, Kang HS, Kim JE, Yoon BW, Paeng JC, Choi SH, Kim JH, Song IC, Chang KH. Invest Radiol. 2013 Jun 12. [Epub ahead of print]

[Multimodality Evaluation of Dural Arteriovenous Fistula with CT Angiography, MR with Arterial Spin Labeling, and Digital Subtraction Angiography: Case Report.](#)

Alexander M, McTaggart R, Santarelli J, Fischbein N, Marks M, Zaharchuk G, Do H. J Neuroimaging. 2013 Jun 7. doi: 10.1111/jon.12032. [Epub ahead of print]

[Quantitative assessment of acute kidney injury by noninvasive arterial spin labeling perfusion MRI: a pilot study.](#)

Dong J, Yang L, Su T, Yang X, Chen B, Zhang J, Wang X, Jiang X. Sci China Life Sci. 2013 Jun 5. [Epub ahead of print]

[Abnormalities of cerebral blood flow in multiple sclerosis: A pseudocontinuous arterial spin labeling MRI study.](#)

Ota M, Sato N, Nakata Y, Ito K, Kamiya K, Maikusa N, Ogawa M, Okamoto T, Obu S, Noda T, Araki M, Yamamura T, Kunugi H. Magn Reson Imaging. 2013 Jul;31(6):990-5. doi: 10.1016/j.mri.2013.03.016. Epub 2013 Apr 11.

[Intensive blood pressure lowering increases cerebral blood flow in older subjects with hypertension.](#)

Tryambake D, He J, Firbank MJ, O'Brien JT, Blamire AM, Ford GA.  
Hypertension. 2013 Jun;61(6):1309-15. doi: 10.1161/HYPERTENSIONAHA.112.200972.  
Epub 2013 Mar 25.

[Cerebral blood flow changes after brain injury in human amyloid-beta knock-in mice. Abrahamson EE, Foley LM, Dekosky ST, Kevin Hitchens T, Ho C, Kochanek PM, Ikonomic MD.](#)

J Cereb Blood Flow Metab. 2013 Jun;33(6):826-33. doi: 10.1038/jcbfm.2013.24. Epub 2013 Feb 27.

[Decreased retinal-choroidal blood flow in retinitis pigmentosa as measured by MRI.](#)

Zhang Y, Harrison JM, Nateras OS, Chalfin S, Duong TQ.  
Doc Ophthalmol. 2013 Jun;126(3):187-97. doi: 10.1007/s10633-013-9374-1. Epub 2013 Feb 14.

[Central mechanisms of pain revealed through functional and structural MRI.](#)

Davis KD, Moayed M.  
J Neuroimmune Pharmacol. 2013 Jun;8(3):518-34. doi: 10.1007/s11481-012-9386-8.  
Epub 2012 Jul 24.

## Comparison of ASL Techniques or ASL compared with other Imaging methods

[Cerebral perfusion alterations in epileptic patients during peri-ictal and post-ictal phase: PASL vs DSC-MRI.](#)

Pizzini FB, Farace P, Manganotti P, Zoccatelli G, Bongiovanni LG, Golay X, Beltramello A, Osculati A, Bertini G, Fabene PF.  
Magn Reson Imaging. 2013 Jul;31(6):1001-5. doi: 10.1016/j.mri.2013.03.023. Epub 2013 Apr 24.

[Combining ESI, ASL and PET for quantitative assessment of drug-resistant focal epilepsy.](#)

Storti SF, Galazzo IB, Del Felice A, Pizzini FB, Arcaro C, Formaggio E, Mai R, Manganotti P.  
Neuroimage. 2013 Jun 17. doi:pii: S1053-8119(13)00665-4.  
10.1016/j.neuroimage.2013.06.028. [Epub ahead of print]

[Effect of Delayed Transit Time on Arterial Spin Labeling: Correlation With Dynamic Susceptibility Contrast Perfusion Magnetic Resonance in Moyamoya Disease.](#)

Yun TJ, Sohn CH, Han MH, Kang HS, Kim JE, Yoon BW, Paeng JC, Choi SH, Kim JH, Song IC, Chang KH.  
Invest Radiol. 2013 Jun 12. [Epub ahead of print]

[Multimodality Evaluation of Dural Arteriovenous Fistula with CT Angiography, MR with Arterial Spin Labeling, and Digital Subtraction Angiography: Case Report.](#)

Alexander M, McTaggart R, Santarelli J, Fischbein N, Marks M, Zaharchuk G, Do H.  
J Neuroimaging. 2013 Jun 7. doi: 10.1111/jon.12032. [Epub ahead of print]

## Functional Imaging / BOLD

[The effect of black tea and caffeine on regional cerebral blood flow measured with arterial spin labeling.](#)

Vidyasagar R, Greyling A, Draijer R, Corfield DR, Parkes LM.

J Cereb Blood Flow Metab. 2013 Jun;33(6):963-8. doi: 10.1038/jcbfm.2013.40. Epub 2013 Mar 13.

[Reliability analysis of the resting state can sensitively and specifically identify the presence of Parkinson disease.](#)

Skidmore FM, Yang M, Baxter L, von Deneen KM, Collingwood J, He G, White K, Korenkevych D, Savenkov A, Heilman KM, Gold M, Liu Y.

Neuroimage. 2013 Jul 15;75:249-61. doi: 10.1016/j.neuroimage.2011.06.056. Epub 2011 Sep 6.

[Effects of dietary glycemic index on brain regions related to reward and craving in men.](#)

Lennerz BS, Alsop DC, Holsen LM, Stern E, Rojas R, Ebbeling CB, Goldstein JM, Ludwig DS. Am J Clin Nutr. 2013 Jun 26. [Epub ahead of print]

[Physiological and psychological individual differences influence resting brain function measured by ASL perfusion.](#)

Kano M, Coen SJ, Farmer AD, Aziz Q, Williams SC, Alsop DC, Fukudo S, O'Gorman RL. Brain Struct Funct. 2013 Jun 16. [Epub ahead of print]

[Resting State Brain Function Analysis Using Concurrent BOLD in ASL Perfusion fMRI.](#)

Zhu S, Fang Z, Hu S, Wang Z, Rao H.

PLoS One. 2013 Jun 4;8(6):e65884. doi: 10.1371/journal.pone.0065884. Print 2013.

[Time-on-task and sleep deprivation effects are evidenced in overlapping brain areas.](#)

Asplund CL, Chee MW.

Neuroimage. 2013 Jun 6. doi:pii: S1053-8119(13)00629-0. 10.1016/j.neuroimage.2013.05.119. [Epub ahead of print]

[Central mechanisms of pain revealed through functional and structural MRI.](#)

Davis KD, Moayed M.

J Neuroimmune Pharmacol. 2013 Jun;8(3):518-34. doi: 10.1007/s11481-012-9386-8. Epub 2012 Jul 24.

## Physiological Parameters besides CBF

[Per-subject characterization of bolus width in pulsed arterial spin labeling using bolus turbo sampling.](#)

Villien M, Chipon E, Troprès I, Bouvier J, Cantin S, Chechin D, Le Bas JF, Krainik A, Warnking JM.

Magn Reson Med. 2013 Jun;69(6):1677-82. doi: 10.1002/mrm.24412. Epub 2012 Jul 24.

[Effect of Delayed Transit Time on Arterial Spin Labeling: Correlation With Dynamic Susceptibility Contrast Perfusion Magnetic Resonance in Moyamoya Disease.](#)

Yun TJ, Sohn CH, Han MH, Kang HS, Kim JE, Yoon BW, Paeng JC, Choi SH, Kim JH, Song IC, Chang KH.

Invest Radiol. 2013 Jun 12. [Epub ahead of print]

## Technical Improvement/ Parameter Optimisation/ Theoretical Papers

[Per-subject characterization of bolus width in pulsed arterial spin labeling using bolus turbo sampling.](#)

Villien M, Chipon E, Troprès I, Bouvier J, Cantin S, Chechin D, Le Bas JF, Krainik A, Warnking JM.

Magn Reson Med. 2013 Jun;69(6):1677-82. doi: 10.1002/mrm.24412. Epub 2012 Jul 24.

[Timing dependence of peripheral pulse-wave-triggered pulsed arterial spin labeling.](#)

Fushimi Y, Okada T, Yamamoto A, Kanagaki M, Fujimoto K, Togashi K.

NMR Biomed. 2013 Jun 20. doi: 10.1002/nbm.2986. [Epub ahead of print]

## Review Paper/ Historical Review

[New developments in arterial spin labeling pulse sequences.](#)

Wong EC.

NMR Biomed. 2013 Jun 3. doi: 10.1002/nbm.2954. [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)