

Dear Colleagues.

Thank you for all the contributions and comments on the first newsletter. I hope you find the second one useful as well.

I am looking forward to your comments, especially if you like to write a feature article or if you have job offerings. Email addresses can be found below (first problems with them as some might have experienced are solved).

Cheers,
Johanna

Recent publications (January & February 2010, e-publications might have been earlier):

Content:

Animal studies	1
Drug studies	2
Cerebral blood flow studies.....	2
Studies on special disease.....	2
Comparisson of ASL Techniques or ASL compaired with other imaging methods	3
Functional imaging	3
Other topics on cerebral blood flow.....	4
Technical / Theoretical Papers.....	4
Commentaries on other articles	5
Job offerings.....	5
Feature articles.....	5

Animal studies

[Quantitative functional magnetic resonance imaging of brain activity using bolus-tracking arterial spin labeling.](#)

Kelly ME, Blau CW, Griffin KM, Gobbo OL, Jones JF, Kerskens CM.
J Cereb Blood Flow Metab. 2010 Jan 13. [Epub ahead of print]

[Characterization of gadolinium-based dynamic susceptibility contrast perfusion measurements in permanent and transient MCAO models with volumetric based validation by CASL.](#)

Bråtane BT, Walvick RP, Corot C, Lancelot E, Fisher M.
J Cereb Blood Flow Metab. 2010 Feb;30(2):336-42. Epub 2009 Oct 14.

Drug studies

[Kinetic modeling of the serotonin 5-HT\(1B\) receptor radioligand \[\(11\)C\]P943 in humans.](#)

Gallezot JD, Nabulsi N, Neumeister A, Planeta-Wilson B, Williams WA, Singhal T, Kim S, Maguire RP, McCarthy T, Frost JJ, Huang Y, Ding YS, Carson RE.
J Cereb Blood Flow Metab. 2010 Jan;30(1):196-210. Epub 2009 Sep 23.

Cerebral blood flow studies

Studies on special disease

[Gray matter perfusion correlates with disease severity in ALS.](#)

Rule RR, Schuff N, Miller RG, Weiner MW.
Neurology. 2010 Feb 10. [Epub ahead of print]

[Association of blood pressure elevation and nocturnal dipping with brain atrophy, perfusion and functional measures in stroke and nonstroke individuals.](#)

Hajjar I, Zhao P, Alsop D, Abduljalil A, Selim M, Novak P, Novak V.
Am J Hypertens. 2010 Jan;23(1):17-23. Epub 2009 Oct 1

[Parkinson's disease spatial covariance pattern: noninvasive quantification with perfusion MRI.](#)

Ma Y, Huang C, Dyke JP, Pan H, Alsop D, Feigin A, Eidelberg D.
J Cereb Blood Flow Metab. 2010 Jan 6. [Epub ahead of print]

[Distribution of Cerebral Blood Flow in the Nucleus Caudatus, Nucleus Lentiformis, and Thalamus: A Study of Territorial Arterial Spin-labeling MR Imaging.](#)

Hendrikse J, Petersen ET, Chng SM, Venketasubramanian N, Golay X.
Radiology. 2010 Jan 20. [Epub ahead of print]

[Multiple Inflow Pulsed Arterial Spin-Labeling Reveals Delays in the Arterial Arrival Time in Minor Stroke and Transient Ischemic Attack.](#)

Macintosh BJ, Lindsay AC, Kylintireas I, Kuker W, Günther M, Robson MD, Kennedy J, Choudhury RP, Jezzard P.
AJNR Am J Neuroradiol. 2010 Jan 28. [Epub ahead of print]

[Pathophysiologic evaluation of MELAS strokes by serially quantified MRS and CASL perfusion images.](#)

Tsujikawa T, Yoneda M, Shimizu Y, Uematsu H, Toyooka M, Ikawa M, Kudo T, Okazawa H, Kuriyama M, Kimura H.
Brain Dev. 2010 Feb;32(2):143-9. Epub 2009 Jan 26.

[Asymmetrical cerebral perfusion demonstrated by noninvasive arterial spin-labeling perfusion imaging in a patient with corticobasal degeneration.](#)

Dashjamts T, Yoshiura T, Hiwatashi A, Yamashita K, Abe K, Ohyagi Y, Kira J, Honda H.
Jpn J Radiol. 2010 Jan;28(1):75-8. Epub 2010 Jan 30.

Comparisson of ASL Techniques or ASL compaired with other imaging methods

[PET/MRI: Paving the Way for the Next Generation of Clinical Multimodality Imaging Applications.](#)

Pichler BJ, Kolb A, Nägele T, Schlemmer HP.
J Nucl Med. 2010 Feb 11. [Epub ahead of print]

[Cerebral Arteriovenous Malformations at 3.0 T: Intraindividual Comparative Study of 4D-MRA in Combination With Selective Arterial Spin Labeling and Digital Subtraction Angiography.](#)

Kukuk GM, Hadizadeh DR, Boström A, Gieseke J, Bergener J, Nelles M, Mürtz P, Urbach H, Schild HH, Willinek WA.
Invest Radiol. 2010 Jan 8. [Epub ahead of print]

[Parkinson's disease spatial covariance pattern: noninvasive quantification with perfusion MRI.](#)

Ma Y, Huang C, Dyke JP, Pan H, Alsop D, Feigin A, Eidelberg D.
J Cereb Blood Flow Metab. 2010 Jan 6. [Epub ahead of print]

[Arterial spin labeling perfusion MRI at multiple delay times: a correlative study with H\(2\)\(15\)O positron emission tomography in patients with symptomatic carotid artery occlusion.](#)

Bokkers RP, Bremmer JP, van Berckel BN, Lammertsma AA, Hendrikse J, Pluim JP, Kappelle LJ, Boellaard R, Klijn CJ.
J Cereb Blood Flow Metab. 2010 Jan;30(1):222-9. Epub 2009 Oct 7.

[Theoretical and experimental evaluation of continuous arterial spin labeling techniques.](#)

Pohmann R, Budde J, Auerbach EJ, Adriany G, Uğurbil K.
Magn Reson Med. 2010 Feb;63(2):438-46.P

[Arterial transit time effects in pulsed arterial spin labeling CBF mapping: Insight from a PET and MR study in normal human subjects.](#)

Qiu M, Paul Maguire R, Arora J, Planeta-Wilson B, Weinzimmer D, Wang J, Wang Y, Kim H, Rajeevan N, Huang Y, Carson RE, Constable RT.
Magn Reson Med. 2010 Feb;63(2):374-84.

[Perfusion MRI of brain tumours: a comparative study of pseudo-continuous arterial spin labelling and dynamic susceptibility contrast imaging.](#)

Järnum H, Steffensen EG, Knutsson L, Fründ ET, Simonsen CW, Lundbye-Christensen S, Shankaranarayanan A, Alsop DC, Jensen FT, Larsson EM.
Neuroradiology. 2009 Oct 20. [Epub ahead of print]

Functional imaging

[Quantitative functional magnetic resonance imaging of brain activity using bolus-tracking arterial spin labeling.](#)

Kelly ME, Blau CW, Griffin KM, Gobbo OL, Jones JF, Kerskens CM.
J Cereb Blood Flow Metab. 2010 Jan 13. [Epub ahead of print]

Other topics on cerebral blood flow

[Attenuation of Cerebral Venous Contrast in Susceptibility-Weighted Imaging of Spontaneously Breathing Pediatric Patients Sedated with Propofol.](#)

Sedlacik J, Löbel U, Kocak M, Loeffler RB, Reichenbach JR, Broniscer A, Patay Z, Hillenbrand CM.

AJNR Am J Neuroradiol. 2010 Jan 6. [Epub ahead of print]

[Baseline brain perfusion and the serotonin transporter promoter polymorphism.](#)

Viviani R, Sim EJ, Lo H, Beschoner P, Osterfeld N, Maier C, Seeringer A, Godoy AL, Rosa A, Comas D, Kirchheiner J.

Biol Psychiatry. 2010 Feb 15;67(4):317-22. Epub 2009 Oct 30

[Imaging brain fatigue from sustained mental workload: An ASL perfusion study of the time-on-task effect.](#)

Lim J, Wu WC, Wang J, Detre JA, Dinges DF, Rao H.

Neuroimage. 2010 Feb 15;49(4):3426-3435. Epub 2009 Nov 24.

[Assessment of arterial arrival times derived from multiple inversion time pulsed arterial spin labeling MRI.](#)

Macintosh BJ, Filippini N, Chappell MA, Woolrich MW, Mackay CE, Jezzard P.

Magn Reson Med. 2010 Feb 9. [Epub ahead of print]

Technical / Theoretical Papers

[Modelling the effects of cardiac pulsations in arterial spin labelling.](#)

Kazan SM, Chappell MA, Payne SJ.

Phys Med Biol. 2010 Feb 7;55(3):799-816. Epub 2010 Jan 14.

[Tailored RF pulse for magnetization inversion at ultrahigh field.](#)

Hurley AC, Al-Radaideh A, Bai L, Aickelin U, Coxon R, Glover P, Gowland PA.

Magn Reson Med. 2010 Jan;63(1):51-8.

[Theoretical and experimental evaluation of continuous arterial spin labeling techniques.](#)

Pohmann R, Budde J, Auerbach EJ, Adriany G, Uğurbil K.

Magn Reson Med. 2010 Feb;63(2):438-46.P

[Effects of CBV, CBF, and blood-brain barrier permeability on accuracy of PASL and VASO measurement.](#)

Wu CW, Liu HL, Chen JH, Yang Y.

Magn Reson Med. 2010 Feb 9. [Epub ahead of print]

[Application of variable-rate selective excitation pulses for spin labeling in perfusion MRI.](#)

He J, Blamire AM.

Magn Reson Med. 2010 Feb 9. [Epub ahead of print]

Commentaries on other articles

[The pain matrix: Reloaded or reborn as we image tonic pain using arterial spin labelling.](#)

Tracey I, Johns E.

Pain. 2010 Jan 15. [Epub ahead of print] No abstract available

Refers to: [Using perfusion MRI to measure the dynamic changes in neural activation associated with tonic muscular pain.](#)

Owen DG, Clarke CF, Ganapathy S, Prato FS, St Lawrence KS.

Pain. 2009 Nov 13. [Epub ahead of print]

If an interesting article is missing let me know, it will be included in the next newsletter. I do my best to keep the list as complete as possible.

Job offerings

If you have any vacancies send them to jobs@asl-network.org

Feature articles

If you like to write a comment on an interesting article mail it to newsletter@asl-network.org