

Dear Colleagues.

Here is the ASL Newsletter No. 17.

Besides the usual list of publications, other important things can be announced. In a modernized the ASL Network Homepage. There is a call for Applications for Short Term Scientific Missions 2011/2012. And last but not least we like to remind those of you going to the ISMRM of the annual Network Dinner.

1. We would like to draw your attention to the revamped **ASL Network homepage** at www.asl-network.org , which some of you have already discovered. With Firefox it looks a bit better than with the internet explorer.

To start with, please **create an account** containing your ASL research interests. For each research group please create as well a **group profile** where you can specify your group's topics and members. Once your account is created, you have the option to send messages to other members. That way we will have a little "ASL Network Facebook", which makes it easier to see who belongs where and conducts which research. To make it look nice, please upload a picture as well!

With the new **Job Board**, open positions within the community can be easily browsed. If you would like to post a job offer, please send it to jobs@asl-network.org, containing the job description and a contact address. Applications can then be directly submitted to the provided contact address.

If you would like to share **latest news** with the community, please send it to editor@asl-network.org and we will publish it. Additionally, if you would like to contribute to the **basic principles of ASL** on the webpage, we will be happy to publish it along with the information already there.

2. Applications for Short Term Scientific Missions 2011/2012

Parts of the ASL Network has recently been funded by a European Networking grant from the COST office, named "Arterial spin labelling Initiative in Dementia (AID)". Under this grant, the So-called AID COST Action aims at developing and/or strengthening collaboration between centers within the network. As such, it provides young and early stage (less than PhD + 8 years) researchers with individual support to conduct scientific and educational exchanges between partner laboratories. For Short Term Scientific Missions (STSMs) young and early stage researchers may apply for a grant up to 2,500 EUR for a period up to 3 months or 3,500 EUR for a period up to 6 months (early stage researchers only).

Please apply for STSM by sending your proposals from June, 1st to June 30th to:

Ms. Eva Haas
European Institute for Biomedical Imaging Research (EIBIR)
Neutorgasse 9, 1010 Vienna, Austria
phone: +43-1-5334064-29
fax: +43-1-5357041
<mailto:ehaas@eibir.org>

<http://www.eibir.org>

For your application please proceed with the following steps

- Register your application on www.cost.eu/STSM
- At the last stage, download the application in pdf and add to your application
- Please submit:
 - Contact details at your home institution
 - Contact details and letter of intent/approval of host institution
 - Your CV and list of publications
 - Duration and Grant of planned STSM
- Rules:
 - min. 5 days - up to 3 months, max. 2.500€
(calculate an average of 60-90€/day for subsistence and 300€ for travel)
 - over 3 months - up to 6 months, max. 3500€ (only "Early Stage Researcher" or ESR staying over 3 months can apply for 3500€. ESR = PhD + up to 8 years)

A more detailed process can be found on **the Vademecum_STSM.pdf** file.

3. ASL Network Dinner at the ISMRM.

Wednesday **9th May 2012, 7.30pm**

at

The Graduate Union of The University of Melbourne Incorporated
220 Leicester St, Carlton, Melbourne, Australia, 3053

The price will be \$30.00 not including drinks. Please bring enough **cash** to pay for your meal.

Please register till Friday 4th May under link if you like to join.

<http://www.doodle.com/2r6ppp3ygdpv4ez3>

Here you find directions from the Convention Center to the venue.

[http://maps.google.de/maps?saddr=1+Convention+Centre+Place,+South+Wharf+VIC+3006,+Australia+\(Melbourne+Convention+Centre\)&daddr=220+Leicester+Street,+Carlton,+VIC,+3053,+Australia&hl=de&ll=37.812801,144.9546&spn=0.033938,0.065875&sll=37.812971,144.953055&sspn=0.033938,0.065875&geocode=FXPUvv0dPsijCCHw_lvjpqDEDCljrKJpWF3WajGwQnHsdFYEEw%3BFVY1v_0dgO6jCClvrcksLV3WajGzO61WCfjQNw&oq=220+Leicester+Street+Carlton+Vic+3053+AUSTRALIA&dirflg=w&mra=itm&t=m&z=15](http://maps.google.de/maps?saddr=1+Convention+Centre+Place,+South+Wharf+VIC+3006,+Australia+(Melbourne+Convention+Centre)&daddr=220+Leicester+Street,+Carlton,+VIC,+3053,+Australia&hl=de&ll=37.812801,144.9546&spn=0.033938,0.065875&sll=37.812971,144.953055&sspn=0.033938,0.065875&geocode=FXPUvv0dPsijCCHw_lvjpqDEDCljrKJpWF3WajGwQnHsdFYEEw%3BFVY1v_0dgO6jCClvrcksLV3WajGzO61WCfjQNw&oq=220+Leicester+Street+Carlton+Vic+3053+AUSTRALIA&dirflg=w&mra=itm&t=m&z=15)

For those who are in Melbourne, enjoy the ISMRM.

Cheers,
Ina and Johanna

Recent publications

April 2012,

(e-publications might have been earlier):

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Animal studies

[Noninvasive MRI measurement of CBF: evaluating an arterial spin labelling sequence with \(99m\)Tc-HMPAO CBF autoradiography in a rat stroke model.](#)

Baskerville TA, McCabe C, Weir CJ, Macrae IM, Holmes WM.

J Cereb Blood Flow Metab. 2012 Apr 4. doi: 10.1038/jcbfm.2012.19. [Epub ahead of print]

[Pseudo-continuous arterial spin labeling at very high magnetic field \(11.75 T\) for high-resolution mouse brain perfusion imaging.](#)

Duhamel G, Callot V, Tachrount M, Alsop DC, Cozzone PJ.

Magn Reson Med. 2012 May;67(5):1225-36. doi: 10.1002/mrm.23096. Epub 2011 Oct 19.

[The importance of RF bandwidth for effective tagging in pulsed arterial spin labeling MRI at 9.4T.](#)

Wells J, Siow B, Lythgoe M, Thomas D.

NMR Biomed. 2012 Apr 19. doi: 10.1002/nbm.2782. [Epub ahead of print]

Pharmacological / Drug studies

[Changes in regional cerebral blood flow and functional connectivity in the cholinergic pathway associated with cognitive performance in subjects with mild Alzheimer's disease after 12-week donepezil treatment.](#)

Li W, Antuono PG, Xie C, Chen G, Jones JL, Ward BD, Franczak MB, Goveas JS, Li SJ. Neuroimage. 2012 Apr 2;60(2):1083-91. Epub 2012 Jan 8.

[Dissociable effects of methylphenidate, atomoxetine and placebo on regional cerebral blood flow in healthy volunteers at rest: A multi-class pattern recognition approach.](#)

Marquand AF, O'Daly OG, De Simoni S, Alsop DC, Maguire RP, Williams SC, Zelaya FO, Mehta MA.

Neuroimage. 2012 Apr 2;60(2):1015-24. Epub 2012 Jan 14.

[The response to rapid infusion of fentanyl in the human brain measured using pulsed arterial spin labelling.](#)

Zelaya FO, Zois E, Muller-Pollard C, Lythgoe DJ, Lee S, Andrews C, Smart T, Conrod P, Vennart W, Williams SC, Mehta MA, Reed LJ.

MAGMA. 2012 Apr;25(2):163-75. Epub 2011 Nov 24.

Perfusion studies other than on the brain

[Assessing potential errors of MRI-based measurements of pulmonary blood flow using a detailed network flow model.](#)

Burrowes KS, Buxton RB, Prisk GK.

J Appl Physiol. 2012 Apr 26. [Epub ahead of print]

[Non-invasive pulmonary perfusion assessment in young patients with cystic fibrosis using an arterial spin labeling MR technique at 1.5 T.](#)

Schraml C, Schwenzer NF, Martirosian P, Boss A, Schick F, Schäfer S, Stern M, Claussen CD, Schäfer JF.

MAGMA. 2012 Apr;25(2):155-62. Epub 2011 Jul 24.

[Repeatability of renal arterial spin labelling MRI in healthy subjects.](#)

Cutajar M, Thomas DL, Banks T, Clark CA, Golay X, Gordon I.

MAGMA. 2012 Apr;25(2):145-53. Epub 2012 Jan 13.

Cerebral blood flow studies

Studies on special diseases

[Arterial spin labeling measurement of cerebral perfusion in children with sickle cell disease.](#)

Gevers S, Nederveen AJ, Fijnvandraat K, van den Berg SM, van Ooij P, Heijtel DF, Heijboer H, Nederkoorn PJ, Engelen M, van Osch MJ, Majoie CB.

J Magn Reson Imaging. 2012 Apr;35(4):779-87. doi: 10.1002/jmri.23505. Epub 2011 Nov

[Assessment of Alzheimer's Disease Risk with Functional Magnetic Resonance Imaging: An Arterial Spin Labeling Study.](#)

Bangen KJ, Restom K, Liu TT, Wierenga CE, Jak AJ, Salmon DP, Bondi MW.
J Alzheimers Dis. 2012 Apr 20. [Epub ahead of print]

[Automated Perfusion Imaging for the Evaluation of Transient Ischemic Attack.](#)

Kleinman JT, Zaharchuk G, Mlynash M, Ogdie AA, Straka M, Lansberg MG, Schwartz NE, Kemp S, Bammer R, Albers GW, Olivot JM.
Stroke. 2012 Apr 3. [Epub ahead of print]

[Quantitative Assessment of Cerebral Hemodynamic Parameters by QUASAR Arterial Spin Labeling in Alzheimer's Disease and Cognitively Normal Elderly Adults at 3-Tesla.](#)

Mak HK, Chan Q, Zhang Z, Petersen ET, Qiu D, Zhang L, Yau KK, Chu LW, Golay X.
J Alzheimers Dis. 2012 Apr 13. [Epub ahead of print]

[Regional cerebral blood flow and FDG uptake in asymptomatic HIV-1 men.](#)

Towgood KJ, Pitkanen M, Kulasegaram R, Fradera A, Soni S, Sibtain N, Reed LJ, Bradbeer C, Barker GJ, Dunn JT, Zelaya F, Kopelman MD.
Hum Brain Mapp. 2012 Apr 12. doi: 10.1002/hbm.22078. [Epub ahead of print]

[The relationship of resting cerebral blood flow and brain activation during a social cognition task in adolescents with chronic moderate to severe traumatic brain injury: a preliminary investigation.](#)

Newsome MR, Scheibel RS, Chu Z, Hunter JV, Li X, Wilde EA, Lu H, Wang ZJ, Lin X, Steinberg JL, Vasquez AC, Cook L, Levin HS.
Int J Dev Neurosci. 2012 May;30(3):255-66. Epub 2011 Nov 22.

[Visual cortex in dementia with Lewy bodies: magnetic resonance imaging study.](#)

Taylor JP, Firbank MJ, He J, Barnett N, Pearce S, Livingstone A, Vuong Q, McKeith IG, O'Brien JT.
Br J Psychiatry. 2012 Apr 12. [Epub ahead of print]

[Whole-Brain Arterial Spin Labeling Perfusion MRI in Patients With Acute Stroke.](#)

Bokkers RP, Hernandez DA, Merino JG, Mirasol RV, van Osch MJ, Hendrikse J, Warach S, Latour LL; on behalf of the National Institutes of Health Stroke Natural History Investigators.
Stroke. 2012 May;43(5):1290-1294. Epub 2012 Mar 15.

Single case study

[Evaluation of cerebellar mutism by arterial spin-labeling perfusion magnetic resonance imaging in a patient with atypical teratoid/rhabdoid tumor \(AT/RT\): a case report.](#)

Watanabe Y, Yamasaki F, Nakamura K, Kajiwara Y, Takayasu T, Nosaka R, Sugiyama K, Kobayashi M, Kurisu K.
Childs Nerv Syst. 2012 Apr 4. [Epub ahead of print] No abstract available.

[Imaging the neural correlates of neuropathic pain and pleasurable relief associated with inherited erythromelalgia in a single subject with quantitative arterial spin labelling.](#)

Segerdahl AR, Xie J, Paterson K, Ramirez JD, Tracey I, Bennett DL.
Pain. 2012 May;153(5):1122-7. Epub 2012 Feb 24.

Comparison of ASL Techniques or ASL compared with other imaging methods

[Comparison of relative cerebral blood flow maps using pseudo-continuous arterial spin labeling and single photon emission computed tomography.](#)

Liu P, Uh J, Devous MD, Adinoff B, Lu H.
NMR Biomed. 2012 May;25(5):779-86. doi: 10.1002/nbm.1792. Epub 2011 Dec 2.

[Feasibility of pseudocontinuous arterial spin labeling at 7 T with whole-brain coverage.](#)

Ghariq E, Teeuwisse WM, Webb AG, van Osch MJ.
MAGMA. 2012 Apr;25(2):83-93. Epub 2011 Dec 27.

[Functional perfusion imaging using pseudocontinuous arterial spin labeling with low-flip-angle segmented 3D spiral readouts.](#)

Nielsen JF, Hernandez-Garcia L.
Magn Reson Med. 2012 Apr 4. doi: 10.1002/mrm.24261. [Epub ahead of print]

[Regional cerebral blood flow and FDG uptake in asymptomatic HIV-1 men.](#)

Towgood KJ, Pitkanen M, Kulasegaram R, Fradera A, Soni S, Sibtain N, Reed LJ, Bradbeer C, Barker GJ, Dunn JT, Zelaya F, Kopelman MD.
Hum Brain Mapp. 2012 Apr 12. doi: 10.1002/hbm.22078. [Epub ahead of print]

[Regional effects of magnetization dispersion on quantitative perfusion imaging for pulsed and continuous arterial spin labeling.](#)

Cavuşoğlu M, Pohmann R, Burger HC, Uludağ K.
Magn Reson Med. 2012 Apr 9. doi: 10.1002/mrm.24278. [Epub ahead of print]

[Whole-Brain Arterial Spin Labeling Perfusion MRI in Patients With Acute Stroke.](#)

Bokkers RP, Hernandez DA, Merino JG, Mirasol RV, van Osch MJ, Hendrikse J, Warach S, Latour LL; on behalf of the National Institutes of Health Stroke Natural History Investigators.
Stroke. 2012 May;43(5):1290-1294. Epub 2012 Mar 15.

Functional Imaging / BOLD

[Assessment of Alzheimer's Disease Risk with Functional Magnetic Resonance Imaging: An Arterial Spin Labeling Study.](#)

Bangen KJ, Restom K, Liu TT, Wierenga CE, Jak AJ, Salmon DP, Bondi MW.
J Alzheimers Dis. 2012 Apr 20. [Epub ahead of print]

Physiological Parameters beside CBF

[A two-stage approach for measuring vascular water exchange and arterial transit time by diffusion-weighted perfusion MRI.](#)

St Lawrence KS, Owen D, Wang DJ.

Magn Reson Med. 2012 May;67(5):1275-84. doi: 10.1002/mrm.23104. Epub 2011 Aug 19.

[Comparison of arterial transit times estimated using arterial spin labeling.](#)

Chen Y, Wang DJ, Detre JA.

MAGMA. 2012 Apr;25(2):135-44. Epub 2011 Aug 24.

[Indication of BOLD-specific venous flow-volume changes from precisely controlled hyperoxic vs. hypercapnic calibration.](#)

Mark CI, Pike GB.

J Cereb Blood Flow Metab. 2012 Apr;32(4):709-19. doi: 10.1038/jcbfm.2011.174. Epub 2011 Dec 14.

[Quantitative Assessment of Cerebral Hemodynamic Parameters by QUASAR Arterial Spin Labeling in Alzheimer's Disease and Cognitively Normal Elderly Adults at 3-Tesla.](#)

Mak HK, Chan Q, Zhang Z, Petersen ET, Qiu D, Zhang L, Yau KK, Chu LW, Golay X.

J Alzheimers Dis. 2012 Apr 13. [Epub ahead of print]

Technical Improvement/ Parameter Optimisation/ Theoretical Papers

[A fast analysis method for non-invasive imaging of blood flow in individual cerebral arteries using vessel-encoded arterial spin labelling angiography.](#)

Chappell MA, Okell TW, Payne SJ, Jezzard P, Woolrich MW.

Med Image Anal. 2012 May;16(4):831-9. Epub 2011 Dec 27.

[Blind detection of vascular sources and territories using random vessel encoded arterial spin labeling.](#)

Wong EC, Guo J.

MAGMA. 2012 Apr;25(2):95-101. Epub 2012 Jan 10.

[Comparison of Arterial Spin Labeling and Bolus Perfusion-Weighted Imaging for Detecting Mismatch in Acute Stroke.](#)

Zaharchuk G, El Mogy IS, Fischbein NJ, Albers GW.

Stroke. 2012 Apr 26. [Epub ahead of print]

[Improved partial volume correction for single inversion time arterial spin labeling data.](#)

Liang X, Connelly A, Calamante F.

Magn Reson Med. 2012 Apr 23. doi: 10.1002/mrm.24279. [Epub ahead of print]

[Improving quality of arterial spin labeling MR imaging at 3 tesla with a 32-channel coil and parallel imaging.](#)

Ferré JC, Petr J, Bannier E, Barillot C, Gauvrit JY.

J Magn Reson Imaging. 2012 May;35(5):1233-9. doi: 10.1002/jmri.23586. Epub 2012 Jan

[Magnetisation transfer effects of Q2TIPS pulses in ASL.](#)

De Vita E, Günther M, Golay X, Thomas DL.

MAGMA. 2012 Apr;25(2):113-26. Epub 2011 Dec 28.

[Modeling dispersion in arterial spin labeling: Validation using dynamic angiographic measurements.](#)

Chappell MA, Woolrich MW, Kazan S, Jezzard P, Payne SJ, Macintosh BJ.

Magn Reson Med. 2012 Apr 5. doi: 10.1002/mrm.24260. [Epub ahead of print]

[MR perfusion imaging by alternate slab width inversion recovery arterial spin labeling \(AIRASL\): a technique with higher signal-to-noise ratio at 3.0 T.](#)

Fujiwara Y, Kimura H, Miyati T, Kabasawa H, Matsuda T, Ishimori Y, Yamaguchi I, Adachi T.

MAGMA. 2012 Apr;25(2):103-11. Epub 2012 Jan 13.

[Noncontrast-enhanced three-dimensional \(3D\) intracranial MR angiography using pseudocontinuous arterial spin labeling and accelerated 3D radial acquisition.](#)

Wu H, Block WF, Turski PA, Mistretta CA, Johnson KM.

Magn Reson Med. 2012 Apr 24. doi: 10.1002/mrm.24298. [Epub ahead of print]

[Optimization of background suppression for arterial spin labeling perfusion imaging.](#)

Maleki N, Dai W, Alsop DC.

MAGMA. 2012 Apr;25(2):127-33. Epub 2011 Oct 19.

[Pseudo-continuous arterial spin labeling at 7 T for human brain: Estimation and correction for off-resonance effects using a Prescan.](#)

Luh WM, Talagala SL, Li TQ, Bandettini PA.

Magn Reson Med. 2012 Apr 9. doi: 10.1002/mrm.24266. [Epub ahead of print]

[Reduced resolution transit delay prescan for quantitative continuous arterial spin labeling perfusion imaging.](#)

Dai W, Robson PM, Shankaranarayanan A, Alsop DC.

Magn Reson Med. 2012 May;67(5):1252-65. doi: 10.1002/mrm.23103. Epub 2011 Nov 14.

[The importance of RF bandwidth for effective tagging in pulsed arterial spin labeling MRI at 9.4T.](#)

Wells J, Siow B, Lythgoe M, Thomas D.

NMR Biomed. 2012 Apr 19. doi: 10.1002/nbm.2782. [Epub ahead of print]

Comment

[Arterial spin labeling: its time is now.](#)

Alsop DC.

MAGMA. 2012 Apr;25(2):75-7. No abstract available.

[Arterial spin labelling: final steps to make it a clinical reality.](#)

Golay X, Guenther M.

MAGMA. 2012 Apr;25(2):79-82.

[Re: Arterial Spin Labeling MR Imaging for Characterisation of Renal Masses in Patients With Impaired Renal Function: Initial Experience.](#)

Taneja SS.

J Urol. 2012 Apr;187(4):1221. Epub 2012 Feb 14. No abstract available.

[Better late than never: the long journey for noncontrast arterial spin labeling perfusion imaging in acute stroke.](#)

Zaharchuk G.

Stroke. 2012 Apr;43(4):931-2. Epub 2012 Feb 9. No abstract available.

Review Paper

[Applications of arterial spin labeled MRI in the brain.](#)

Detre JA, Rao H, Wang DJ, Chen YF, Wang Z.

J Magn Reson Imaging. 2012 May;35(5):1026-37. doi: 10.1002/jmri.23581. Epub 2012 Jan

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 editor@asl-network.org