

Dear Colleagues,

Here is the ASL Newsletter No. 56.

I would also like to draw your attention to the upcoming last COST Working Group Meeting, which will be taking place from Sunday, October 4th until Tuesday, October 6th 2015 at the Airth Castle Hotel & Spa (<http://www.airthcastlehotel.com>), Airth, Stirlingshire, Scotland, FK2 8JF (40 min away from Edinburgh).

More details regarding the registration, hotel booking and programme can be found at www.aslindementia.org.

There are also two entries in the job section at the end of this Newsletter which might be of interest to you. Additionally to "Job offerings" you can also find the new section "Positions wanted".

Kind regards,
Ina

Recent publications July 2015, (e-publications might have been earlier):

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Animal Studies

[Structural and Functional Alterations of Skeletal Muscle Microvasculature in Dystrophin-Deficient mdx Mice.](#)

Latroche C, Matot B, Martins-Bach A, Briand D, Chazaud B, Wary C, Carlier PG, Chrétien F, Jouvion G.
Am J Pathol. 2015 Jul 17. pii: S0002-9440(15)00331-4. doi: 10.1016/j.ajpath.2015.05.009. [Epub ahead of print]

[Repeatability and variability of myocardial perfusion imaging techniques in mice: Comparison of arterial spin labeling and first-pass contrast-enhanced MRI.](#)

Naresh NK, Chen X, Moran E, Tian Y, French BA, Epstein FH.
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[Pharmacologically-induced neurovascular uncoupling is associated with cognitive impairment in mice.](#)

Tarantini S, Hertelendy P, Tucsek Z, Valcarcel-Ares MN, Smith N, Menyhart A, Farkas E, Hodges EL, Towner R, Deak F, Sonntag WE, Csiszar A, Ungvari Z, Toth P.
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Pharmacological / Drug Studies / Studies on the Effects of Therapies

[Comparison of Regional Brain Perfusion Levels in Chronically Smoking and Non-Smoking Adults.](#)

Durazzo TC, Meyerhoff DJ, Murray DE.
Int J Environ Res Public Health. 2015 Jul 16;12(7):8198-213. doi: 10.3390/ijerph120708198.

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[Associations between regional brain physiology and trait impulsivity, motor inhibition, and impaired control over drinking.](#)

Weafer J, Dziedzic M, Eiler II W, Oberlin BG, Wang Y, Kareken DA
Psychiatry Res. 2015 Aug 30; 233(2):81-7. doi: 10.1016/j.psychres.2015.04.010. Epub 2015 May 7.

Perfusion Studies Other than on the Brain

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[A statistical clustering approach to discriminating perfusion from conduit vessel signal contributions in a pulmonary ASL MR image.](#)

Walker SC, Asadi AK, Hopkins SR, Buxton RB, Prisk GK.
NMR Biomed. 2015 Jul 16. doi: 10.1002/nbm.3358. [Epub ahead of print]

Cerebral Blood Flow Studies

CBF Correlation with Age/ Pediatric Studies

[Age-related changes in brain hemodynamics: A calibrated MRI study.](#)

De Vis JB, Hendrikse J, Bhogal A, Adams A, Kappelle LJ, Petersen ET.
Hum Brain Mapp. 2015 Jul 14. doi: 10.1002/hbm.22891. [Epub ahead of print]

[Incidental Cerebral Microbleeds and Cerebral Blood Flow in Elderly Individuals.](#)

Gregg NM, Kim AE, Gurol ME, Lopez OL, Aizenstein HJ, Price JC, Mathis CA, James JA, Snitz BE, Cohen AD, Kamboh MI, Minhas D, Weissfeld LA, Tamburo EL, Klunk WE.
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[Exercise intensity modulates the change in cerebral blood flow following aerobic exercise in chronic stroke.](#)

Robertson AD, Crane DE, Rajab AS, Swardfager W, Marzolini S, Shirzadi Z, Middleton LE, MacIntosh BJ.

Exp Brain Res. 2015 Aug;233(8):2467-75. doi: 10.1007/s00221-015-4317-6. Epub 2015 May 24.

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[Monitoring Cerebrovascular Reactivity through the Use of Arterial Spin Labeling in Patients with Moyamoya Disease.](#)

Yun TJ, Paeng JC, Sohn CH, Kim JE, Kang HS, Yoon BW, Choi SH, Kim JH, Lee HY, Han MH, Zaharchuk G.

Radiology. 2015 Jul 21:141865. [Epub ahead of print]

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Uchino H, Ito M, Fujima N, Kazumata K, Yamazaki K, Nakayama N, Kuroda S, Houkin K.

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Neurology. 2015 Jul 8. pii: 10.1212/WNL.0000000000001820. [Epub ahead of print]

[Arterial spin-labeling magnetic resonance imaging for diagnosis of early seizure after stroke.](#)

Miyaji Y, Kawabata Y, Joki H, Seki S, Mori K, Kamide T, Tamase A, Nomura M, Kitamura Y, Tanaka F.
J Neurol Sci. 2015 Jul 15;354(1-2):127-8. doi: 10.1016/j.jns.2015.04.049. Epub 2015 May 7. No abstract available.

[Arterial Spin-Labeling Parameters Influence Signal Variability and Estimated Regional Relative Cerebral Blood Flow in Normal Aging and Mild Cognitive Impairment: FAIR versus PICORE Techniques.](#)

Lövblad KO, Montandon ML, Viallon M, Rodriguez C, Toma S, Golay X, Giannakopoulos P, Haller S.
AJNR Am J Neuroradiol. 2015 Jul;36(7):1231-6. doi: 10.3174/ajnr.A4291. Epub 2015 Apr 16.

[Correlation of Asymmetry Indices Measured by Arterial Spin-Labeling MR Imaging and SPECT in Patients with Crossed Cerebellar Diaschisis.](#)

Kang KM, Sohn CH, Kim BS, Kim YI, Choi SH, Yun TJ, Kim JH, Park SW, Cheon GJ, Han MH.
AJNR Am J Neuroradiol. 2015 Jul 30. [Epub ahead of print]

[Quantitative T2, T2*, and T2' MR imaging in patients with ischemic leukoaraiosis might detect microstructural changes and cortical hypoxia.](#)

Wagner M, Helfrich M, Volz S, Magerkurth J, Blasel S, Porto L, Singer OC, Deichmann R, Jurcoane A, Hattingen E.
Neuroradiology. 2015 Jul 31. [Epub ahead of print]

[Diagnostic value of tumor blood flow and its histogram analysis obtained with pCASL to differentiate sinonasal malignant lymphoma from squamous cell carcinoma.](#)

Fujima N, Kameda H, Tsukahara A, Yoshida D, Sakashita T, Homma A, Tha KK, Kudo K, Shirato H.
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Eur Radiol. 2015 Aug;25(8):2479-84. doi: 10.1007/s00330-015-3652-0. Epub 2015 Mar 6.

[Brain perfusion by arterial spin labeling MRI in multiple sclerosis.](#)

Koudriavtseva T, Plantone D, Renna R, Inglese M.

J Neurol. 2015 Jul;262(7):1769-71. doi: 10.1007/s00415-015-7792-6. Epub 2015 May 28. No abstract available.

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Functional Imaging / BOLD

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[Quantitative Functional Arterial Spin Labeling \(fASL\) MRI - Sensitivity and Reproducibility of Regional CBF Changes Using Pseudo-Continuous ASL Product Sequences.](#)

Steketee RM, Mutsaerts HJ, Bron EE, van Osch MJ, Majoie CB, van der Lugt A, Nederveen AJ, Smits M.
PLoS One. 2015 Jul 14;10(7):e0132929. doi: 10.1371/journal.pone.0132929. eCollection 2015.

[Reliability comparison of spontaneous brain activities between BOLD and CBF contrasts in eyes-open and eyes-closed resting states.](#)

Zou Q, Miao X, Liu D, Wang DJ, Zhuo Y, Gao JH.

Neuroimage. 2015 Jul 27;121:91-105. doi: 10.1016/j.neuroimage.2015.07.044. [Epub ahead of print]

[Voxel-Wise Functional Connectomics Using Arterial Spin Labeling Functional Magnetic Resonance Imaging: The Role of Denoising.](#)

Liang X, Connelly A, Calamante F.

Brain Connect. 2015 Jul 29. [Epub ahead of print]

[Modeling the role of osmotic forces in the cerebrovascular response to CO₂.](#)

Tancredi FB, Girouard H, Hoge RD.

Med Hypotheses. 2015 Jul;85(1):25-36. doi: 10.1016/j.mehy.2015.03.018. Epub 2015 Mar 25.

[Simultaneous acquisition of cerebral blood volume-, blood flow-, and blood oxygenation-weighted MRI signals at ultra-high magnetic field.](#)

Krieger SN, Huber L, Poser BA, Turner R, Egan GF.

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[Eccentricity mapping of the human visual cortex to evaluate temporal dynamics of functional T1ρ mapping.](#)

Heo HY, Wemmie JA, Johnson CP, Thedens DR, Magnotta VA.

J Cereb Blood Flow Metab. 2015 Jul;35(7):1213-9. doi: 10.1038/jcbfm.2015.94. Epub 2015 May 13.

[Understanding the dynamic relationship between cerebral blood flow and the BOLD signal: Implications for quantitative functional MRI.](#)

Simon AB, Buxton RB.

Neuroimage. 2015 Aug 1;116:158-67. doi: 10.1016/j.neuroimage.2015.03.080. Epub 2015 Apr 8.

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Fazlollahi A, Bourgeat P, Liang X, Meriaudeau F, Connelly A, Salvado O, Calamante F.

Neuroimage. 2015 Aug 15;117:191-201. doi: 10.1016/j.neuroimage.2015.05.048. Epub 2015 May 27.

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

[Image reconstruction using a gradient impulse response model for trajectory prediction.](#)

Vannesjo SJ, Graedel NN, Kasper L, Gross S, Busch J, Haeberlin M, Barmet C, Pruessmann KP.

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Case Reports

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Rajendran R, Liang J, Tang MY, Henry B, Chuang KH.

NMR Biomed. 2015 Aug;28(8):988-97. doi: 10.1002/nbm.3330. Epub 2015 Jun 24.

[3D time-resolved vessel-selective angiography based on pseudo continuous arterial spin labeling.](#)

Lindner T, Jensen-Kondering U, van Osch MJ, Jansen O, Helle M.

Magn Reson Imaging. 2015 Jul;33(6):840-6. doi: 10.1016/j.mri.2015.03.001. Epub 2015 Mar 13.

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Magn Reson Med. 2015 Aug;74(2):513-7. doi: 10.1002/mrm.25431. Epub 2014 Sep 5.

Review Paper/ Historical Review

[Cerebrovascular MRI: a review of state-of-the-art approaches, methods and techniques.](#)

MacDonald ME, Frayne R.

NMR Biomed. 2015 Jul;28(7):767-91. doi: 10.1002/nbm.3322. Epub 2015 May 26.

Job offerings

EPSRC funding for a 3 year post concerning new MRI measurements of the microvasculature, for application in neurodegenerative disease using techniques such as DCE-MRI and ASL. This is an exciting opportunity as we are building up quite a large team of people looking at imaging in dementia.

Details are here:

<https://www.jobs.manchester.ac.uk/displayjob.aspx?jobid=10176>

Closing date is **30th August**.

If you have any vacancies please send them to jobsATasl-network.org

Positions wanted

Helen Beaumont, just completed PhD at Manchester University, title of PhD is *MultiModal MRI of frontotemporal dementia*.

Special interests: ASL, diffusion, dementia.

Seeking a position from November 2015.

Please contact: helen.beaumont@manchester.ac.uk

If you are looking for a new position in the field of ASL, please send a description of your qualifications and interests to jobsATasl-network.org

Feature articles

If you would like to write a comment on an interesting article mail it to editorATasl-network.org