

Dear Colleagues,

Here is the ASL Newsletter No. 57.

For me it is now "time to say goodbye"- from next month on, Klaus Eickel from mediri will be in charge of the ASL Newsletter and the homepage. I had a great time taking care of the Newsletter and being closely linked to the ASL community! I hope we'll stay in contact in the future!

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 new entries in the job section which might be of interest to you.

Kind regards and all the best,
Ina

Recent publications

August 2015,

(e-publications might have been earlier):

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Animal Studies

[Optimization of arterial spin labeling MRI for quantitative tumor perfusion in a mouse xenograft model.](#)

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CBF Correlation with Age/ Pediatric Studies

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J Cereb Blood Flow Metab. 2015 Aug;35(8):1296-303. doi: 10.1038/jcbfm.2015.42. Epub 2015 Mar 18.

Functional Imaging / BOLD

[Whole-Brain N-Acetylaspartate Concentration Is Preserved during Mild Hypercapnia Challenge.](#)

Chawla S, Ge Y, Lu H, Marshall O, Davitz MS, Fatterpekar G, Soher BJ, Gonen O.
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[Understanding the dynamic relationship between cerebral blood flow and the BOLD signal: Implications for quantitative functional MRI.](#)

Simon AB, Buxton RB.

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Physiological Parameters besides CBF

[Time efficient determination of spin compartments by Time Encoded pCASL](#)

[T₂-Relaxation-Under-Spin-Tagging and its application in hemodynamic characterization of the cerebral border zones.](#)

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[Voxel-Wise Perfusion Assessment in Cerebral White Matter with PCASL at 3T; Is It Possible and How Long Does It Take?](#)

Skurdal MJ, Bjørnerud A, van Osch MJ, Nordhøy W, Lagopoulos J, Groote IR.

PLoS One. 2015 Aug 12;10(8):e0135596. doi: 10.1371/journal.pone.0135596. eCollection 2015.

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[Improving perfusion quantification in arterial spin labeling for delayed arrival times by using optimized acquisition schemes.](#)

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Review Paper/ Historical Review

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Job offerings

Postdoctoral research fellow in Functional MRI at the University of Michigan Ann Arbor, MI, USA

Position title:

Postdoctoral research fellow in functional MRI

Description:

A postdoctoral research position will be available at the Functional MRI Laboratory in January of 2016. The candidate's job will be to conduct research on projects related to quantitative imaging of cerebral blood flow using MRI without the use of contrast agents. The research duties will include pulse sequence programming of a GE scanner (EPIC language), image reconstruction and processing, and importantly modeling the MR signal under blood flow conditions. The candidate will be expected to publish their findings in peer reviewed journals and international conferences.

Requirements:

The ideal candidate will have a Ph.D. degree in a relevant discipline such as Biomedical Engineering, Electrical Engineering, or Physics. He/she will also have experience in the areas of Arterial Spin Labeling (ASL) or Magnetic Resonance Fingerprinting (MRF). MR pulse programming experience is a must, preferably in EPIC. A strong background in signal processing and mathematical modeling is also crucial for this project.

Environment:

The Functional MRI Laboratory at the University of Michigan, has a fifteen-year history of neuroimaging and MRI engineering research. During its operation, the laboratory has provided a common forum for research groups ranging from Psychiatry to Electrical Engineering. The laboratory hosts numerous seminars given by invited speakers, are attended by investigators from the Great Lakes region. The FMRI laboratory holds an intensive two-week course in FMRI every summer, and an advanced neuroimaging speaker series in order to facilitate training of new investigators and disseminate the latest findings in the literature among the local neuroimaging community.

The laboratory houses two state-of-the-art, research-dedicated, 3.0 T GE MR750 (Discovery) MRI scanners, which are fully equipped for functional imaging studies and are outfitted with custom parallel transmission equipment. In addition, there is ample room for participant waiting, dressing and training rooms, computational support facilities, and a fully equipped electronics workshop for coil and phantom construction. Multiple FMRI participant stimulation devices are available to investigators for audio-visual stimulation. The University of Michigan 3D Laboratory provides the latest 3D printing services to the University community.

The Engineering Preclinical Imaging Center is also available for this project. It is a small animal imaging facility adjacent to the Functional MRI Laboratory. It consists of an Agilent 7T scanner. This system has a 31 cm bore and has 3 gradient inserts, and supports a full range of MRI pulse sequences, including echo planar imaging and diffusion tensor imaging. The system has include 4 transmit channels for parallel excitation and 4 receive channels along with several array coils for parallel imaging. Full physiological monitoring, animal holders, rapid animal positioning systems, and an animal ventilator, stereotaxic frame and heater are available.

How to Apply:

Please submit a cover letter, CV and the contact information of three references to:

Luis Hernandez-Garcia, Ph.D.
2360 Bonisteel Blvd.
Ann Arbor, MI, 48109-2108
hernanATumich.edu

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 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