

University of Michigan Workshop on Arterial Spin Labeling MRI: Technical Updates and Clinical Experience

http://fmri.research.umich.edu/events/asl_workshop.php

March 9-10, 2019

Kahn Auditorium, Biomedical Sciences Research Building
University of Michigan
Ann Arbor, MI, USA

Objectives

Arterial Spin Labeling (ASL) has become a mainstream technique to collect quantitative perfusion images since the consensus article in 2015 (Magnetic resonance in medicine, 73(1), 102-116). Since then, innovative ASL developments have been unrelenting, both in terms of technical consideration and clinical translation.

This weekend workshop is intended for the community of users and developers of ASL MRI techniques to network, share new findings, discuss developments & experience, with the intent of mapping out further technical recommendations for clinical translation. Among other topics, we will focus on sharing our experience and learning from each other about the following:

- Clinical experience with ASL: what are the most useful applications? Can ASL replace DSC and/or SPECT?
- How to read ASL scans in the clinic, how to report a single subject scan
- What are the challenges and pitfalls in ASL scans?
- Can quantitative results be compared across sites?
- Fine tuning of the Labeling: how long and what pCASL parameters?
- Do different types of pathology require custom parameters?
- Single or multi-time point ASL? Time-encoded or repeated single PLD scanning or Look-Locker?
- Image acquisition schemes for ASL: 3D, multiband 2D, quantitative functional imaging
- Alternative labeling schemes: is velocity selective ASL a better option?
- Quality control and calibration: perfusion phantoms
- Are additional support scans (e.g., T1, CBV ...etc) necessary? Practical?

Intended audience

- MRI Engineers/Physicists working on the area of arterial spin labeling and perfusion imaging.
- Neuroscientists using ASL methods to examine brain function
- Clinicians interested in MRI vascular and perfusion imaging

Submissions

Abstract submission will be open **between November 1, 2018 and January 10, 2019**. Please stay tuned for instructions at

<http://fmri.research.umich.edu/events/>

Organizing Committee

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