Tentative Agenda
Contributions to the agenda are welcome, please contact us with suggested talk titles!

09:30-10:00 Arrival
Arrival of the participants, coffee and tea

Clinical & biological background and applications
Placental histology/pathology and biological hypotheses
Clinically relevant placental diseases, clinical imaging requirements

In-vivo functional placental imaging
Structural assessment of the placenta
Optimizing contrast for delineation of structural regions
Quantifying placenta microstructure with diffusion MRI
Oxygen-Enhanced and BOLD MRI in the detection of placental dysfunction
Placental Oxygenation and separation of fetal and maternal circulations
Perfusion MRI in the placenta
Separation of fetal and maternal circulations in the placenta using multi-modal MRI

12:45-13:30 Sandwich lunch / networking

Challenges
Safety (SAR, Acoustic Noise)
Motion correction
Fully automatic segmentation using machine learning

Validation techniques
Ex-vivo MRI - Correlation to Histology, Dual Perfusion
Experience with Placenta Phantoms
MRI-based methods in utero in mice
Correlation of MRI measurements to US/DUS techniques

We explicitly encourage the participation of PhD students/early career researchers/clinical fellows and offer a limited number of student travel bursaries.
No registration fee.

Local organizers: Alison Ho, Jana Hutter, Lisa Story, Jo Hajnal, Mary Rutherford

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