

Matthias van Osch, PhD.

Professor of Radiology, Leiden University Medical Center, Leiden, The Netherlands and vice-director of the C.J. Gorter Center for high field MRI.

Dr. Van Osch studied applied physics at the University Twente and obtained his PhD at Utrecht University on the topic of contrast agent perfusion MRI. After moving to Leiden, he switched his research to non-invasive perfusion MRI by means of arterial spin labeling and he became technical project leader for the installation of the first 7 Tesla MRI scanner in The Netherlands in 2007. He is currently director of the C.J. Gorter MRI center in Leiden. His research centers around advanced physiological MRI methodology as well as high resolution anatomical neuroimaging. Recently, he got intrigued by the human brain clearance system and how to image this by MRI. He is the chair of a JPND program on the topic of "Human brain clearance imaging" and secretary of the ISMRM studygroup on Neurofluids.

Speech Title: Probing CSF Mobility for Human Brain Clearance MRI: Water Transport across the Blood-CSF Barrier and Mobility of CSF in Perivascular Spaces