

## NEWSLETTER #3-Oct 2020

### FINAL HANDOVER COMPLETED



This cheerful yet somewhat gender-imbalanced group took part in the official handover of the MAGNETOM Terra 7T between NTNU and Siemens Healthineers on Sept 25<sup>th</sup>2020 via Teams. This completed the trial period that started on 29<sup>th</sup> November 2019, extended by the coronavirus pandemic, which allowed NTNU to perform a thorough evaluation of the MR system functionality as well as optimization of imaging protocols. Both parties are very pleased with the outcome of the trial period and are looking forward to the next chapter.

### PROTOCOL OPTIMIZATION PHASE

During the trial period around 150 healthy volunteers as well as 15 patients have been scanned on the Terra. The main objective in this phase has been to establish optimized protocols for use in research and clinic as well as to collect subject experience data.

### FULL TEAM NOW ACTIVE

The team affiliated with the 7T Center now counts 9 persons in total: 2 radiographers, 2 radiologists, 4 physicists, and one engineer.



Group picture Corona-style. From left: Pål Erik Goa, Maria Grinde, Roar Sunde, Knut Nordlid, Even H. Fyllingen, Desmond Tse, Erik Berntsen, and Neil Jerome. Lillian Naust was absent.

### FIRST RESEARCH PROJECTS

During the next few months a handful of research projects are scheduled for start-up at the 7T.

**STRAT-PARK** is a multicenter study on Parkinson's disease led by Charalampos Tzoulis at the Neuro-SysMed Center in Bergen. The study-arm at St.Olavs hospital/NTNU, run by Kjersti Stige and Bjørg Warø at the Dep. of Neurology, will recruit 200 individuals with Parkinson's disease and healthy controls and follow them systematically with clinical and laboratory measures as well as repeated 7T MRI scans every 2 years.

NTNU and St.Olavs hospital is starting up a systematic comparison study for healthy volunteers and patients on **1.5T/3T versus 7T**. The main aim of this study is to collect side-by-side examples of images from "standard" MRI as well as 7T MRI in order to establish a first set of criteria for clinical referral to 7T MRI.

In addition, two **fMRI studies** headed by Asta Håberg and Christian Doeller respectively, as well as one **glioma study** headed by Live Eikenes are starting up this fall.



Eyetracker equipment, part of the fMRI suite at the 7T system, under testing by Matthias Nau from the Kavli Center.

### CONTACT THE 7T MR CENTRE

The Norwegian 7T MR Centre is a national facility and welcomes enquiries from potential researchers and collaborators. To learn more about us and get in touch, please visit our website:

[www.ntnu.edu/mh/7tmr](http://www.ntnu.edu/mh/7tmr)