

brainbox

initiative

**TMS Neuronavigation**

Sample Programme

- 09:30** Registration
- 10:00** Welcome and introductions
- 10:15** Lecture: **Overview of Neuronavigation for TMS**  
Basic principles of neuronavigation  
Core functionality of TMS neuronavigation  
Additional applications (EMG, EEG, NIRS, tES)
- 11:00** Practical session 1:  
Subject registration using real MRI and average MRI plus validation  
Coil calibration
- 11:45** Lecture: **Selecting Targets**  
Selecting targets using:  
Anatomical data  
Functional data  
Atlas spaces (overlays/coordinates)  
Converting stimulation sites to targets
- 12:00** Lunch
- 13:00** Practical session 2:  
Using Brainsight to select targets, including:  
Importing overlays  
Atlas space registrations  
Optimising trajectories  
Optimising grids
- 14:00** Practical session 3:  
Using Brainsight to visualise coil location relative to anatomical structures and/or predefined targets.  
Recording and exporting data, including:  
Stimulation sites/coordinates  
Target coordinates, target errors, and distance to targets
- 15:00** Break
- 15:15** Parallel practical sessions:  
Group A: MEP - motor mapping  
Group B: EEG and/or NIRS cap layouts and digitisation  
Group C: tES planning and targeting
- 16:15** Group Q&A session with practical demonstrations
- 17:00** Workshop summary and wrap up