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Ultra-high field, multi-echo MRI acquisition for resting-state functional connectivity

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Protocol status: Working
We use this protocol and it's working

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Abstract

This is an MRI acquisition sequence used to examine resting-state functional connectivity of open and closed loop motor circuits in healthy controls and those with Parkinson's Disease. Scans include a Localizer, anatomical T1 MPRAGE, CMRR spin-echo AP and PA echo-planar imaging (EPI) images for field map generation, and a modified CMRR multi-echo EPI sequence for resting-state imaging. All participants complete a 30-minute MRI protocol at the University of Southern California's Center for Image Acquisition, where they are scanned with a Siemens 7T Terra scanner and a research-only 8-channel transmit 32-channel receive Nova 8Tx/32Rx head coil (Nova Medical Inc.)

Attachments

PDF

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73KB

Materials

Equipment

- Siemens 7T MAGNETOM Terra
- Nova Medical 8-channel pTx system and 8Tx/32Rx head coil

Protocol references

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