Materials List for:

# Concurrent EEG and Functional MRI Recording and Integration Analysis for Dynamic Cortical Activity Imaging

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## Materials

| Name | Company | Catalog Number | Comments |
|---|---|---|---|
| BrainAmp MR Plus | Brain Products | | Amplifiers for EEG recording, MR-compatible |
| BrainAmp ExG MR | Brain Products | | Amplifier for auxilary sensor (EMG), MR-compatible |
| BrainAmp Power Pack | Brain Products | | Provide power to amplifiers in the MR environment |
| Ribbon Cables | Brain Products | | Connects the Power Pack to Amplifiers |
| SyncBox | Brain Products | | Synchronize MR scanner clock with EEG amplifier clock |
| BrainCap MR | Brain Products | | Passive-electrode 64-channel EEG cap, MR-compatible |
| BrainVision Recorder | Brain Products | | EEG data recording software (steps 1.2-1.4.2) |
| BrainVision Analyzer 2.0 | Brain Products | | EEG analysis software (steps 4.1-4.6) |
| USB 2 Adapter (also known as BUA) | Brain Products | | Interface between the amplifiers and data acquisition computer |
| Fiber Optic Cables | Brain Products | | Connects the EEG cap in the MR scanner to the Recording Computer |
| SyncBox Scanner Interface | Brain Products | | Synchronize MR scanner clock with EEG amplifier clock |
| Trigger Cable | Brain Products | | Used to send scanner/paradigm triggers to the recording computer |
| ABRALYT HiCl EEG Electrode Gel | EasyCap | | Abrasive EEG gel for passive electrode in MR environment |
| Ingenia 3.0T MR system | Philips | | 3.0 T MRI system |
| Patriot Digitizer | Polhemus | | EEG channel location digitization |
| MATLAB r2014a | MathWorks | | Programming base for the DBTN algorithm (steps 3.3-3.4 and 5.1-5.7) |
| Pictures of Facial Affect | Paul Eckman Group | | A series of emotionally valent faces used as stimuli |
| E-Prime 2.0 | Psychology Software Tools, Inc | | Presentation Software (step 1.4.3) |
| Bipolar skin EMG electrode | Brain Products | | Used to detect muscle activity. |
| POLGUI | | | MATLAB software for digitization |

| Freesurfer | | | Software used in steps 2.1-2.4, and steps 3.1-3.2 |
| MNE | | | Software used in step 2.5 |