Materials List for:

Investigating the Function of Deep Cortical and Subcortical Structures Using Stereotactic Electroencephalography: Lessons from the Anterior Cingulate Cortex

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Materials

Name	Company	Catalog Number	Comments
Trigger I/O cable	Natus Medical Inc.	5029	PS2 to BNC cable
BNC cables for analog pulses			Can be ordered from most electronics stores.
Power strip with surge protection and battery backup	Tripp Lite	SMART500RT1U UPC	Power source and backup
National instruments multifunctional daq data acquisition box NI PCIe-6382 DAQ cards	National Instruments	PCIe-6382 w/ BNC 2090A	PCI cards for behavioral control interface
Custom made button box - human interface device			Any human interface device with three buttons may be used. Alternatively, 3 keyboard buttons may be used.
Xltek 128 channel clinical intracranial EEG monitoring system EMU128FS	Natus Medical Inc.	002047c	Clinical recording system
Subject monitor and associated cables for visual stimulus presentation	Dell	U2212HMc	Most Monitors are adequate here.
Personal comptuer running behavioral software with DAQ cards installed	Superlogics	SL-2U-PD-Q87SLQ-BA	Computer for recording neural data
Mains cable for monitor			Usually comes with the monitor, can be purchased at any electronics store.
Monkey Logic software which runs on Matlab 2010A			Free from MonkeyLogic website
MATLAB 2010a software with data acquisition toolbox	Mathworks		Matlab software
sEEG electrodes AD TECH or PMT	AD TECH	2102-##-101	Platinum tip, diameter (0.89 mm, 1 mm, 1.1 mm), uninsulated length 2.3 mm; The ## in the catalog number indicates the number of contacts on the electrode (08, 10, 12, or 16)
Cabrio connectors	PMT	2125-##-01	The ## in the catalog number indicates the number of contacts on the electrode (08, 10, 12, or 16)

Tucker Davis Technologies Amplifier	Tucker Davs Technologies	PZ5	preamplifier for neural data
Tucker Davis Technologies processor	Tucker Davs Technologies	RZ2	Neural signal processor for neural data
TuckerDavis Technologies data streamer	Tucker Davs Technologies	RS4	Data streamer and storage
Fiber optics cables to connect TDT systems	Tucker Davs Technologies	F05	Fiber optic cables for connecting Tucker Davis Technologies' prodcuts.
ribbon cable and snap serial connector for digital markers			Can be ordered from ost electronics stores.
personal computer fro running TDT RPvdsEx and OpenEx software	Superlogics	SL-2U-PD-Q87SLQ-BA	computer for behavioral control
middle atlantics server cabinet with casters	Middle Atlantic Products	PTRK-21	Server case to house all of the research items
Tucker Davis Technologies splitter box to split clinical and research recrodings	Tucker Davs Technologies		This splitter box is a semi-custom device. Researchers should consult the attending neurologists about splitting the research and clinical recordings in a way that doesn't interfere with clinical care.
Researcher monitor with requisite cables	Dell	U2212HMc	Most Monitors are adequate here.
button box power source - 5 volts, 2 amperes			Can be purchased at any electronics store.
TDT optical interface PCI card	Tucker Davs Technologies	P05	