

Materials List for:

Cerebral Blood Flow-Based Resting State Functional Connectivity of the Human Brain using Optical Diffuse Correlation Spectroscopy

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Materials

Name	Company	Catalog Number	Comments
3D Printed Probe	In-house	N/A	3D printed PLA probe (Craftbot, Craft unique)
785nm, 100mW, CW, FC coupled Laser	CrystaLaser	DL785-100-S	DCS component (light source)
Auto-correlator	Correlator.com	Flex05-8ch	DCS component (output g2 curve to PC)
Data Acquisition GUI	In-house	N/A	GUI coded in LabVIEW to run the DCS system
Data analysis software	In-house	N/A	Matlab code used for obtaining RSFC results
EEG Electrode Cap	OpenBCI	N/A	EEG mesh cap with standard 10/20 positions
Multi-mode fiber	OZ Optics	QMMJ-3,2.5-IRVIS-600/630-3PCBK-3	DCS component (source fiber)
Oxiplex calibration phantom	ISS	75019, 75020	Set of 2 PDMS Calibration Phantom
Oxiplex muscle probe	ISS	86010	4 channel muscle probe
Oxiplex Oximeter	ISS	95205	FD-fNIRS (690nm, 830nm)
Power meter	Thorlabs	PM100D	Laser light power adjuster
Sensor card	Thorlabs	F-IRC1-S	laser IR beam viewer
Single-mode fiber	OZ Optics	SMJ-3S2.5-780-5/125-3PCBK-3	DCS component (detector fiber)
Single-Photon Counting Machine	Excelitas	SPMC-NIR-1x2-FC	DCS component (detector)