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CENTER FOR ADVANCED MOTOR BIOENGINEERING RESEARCH

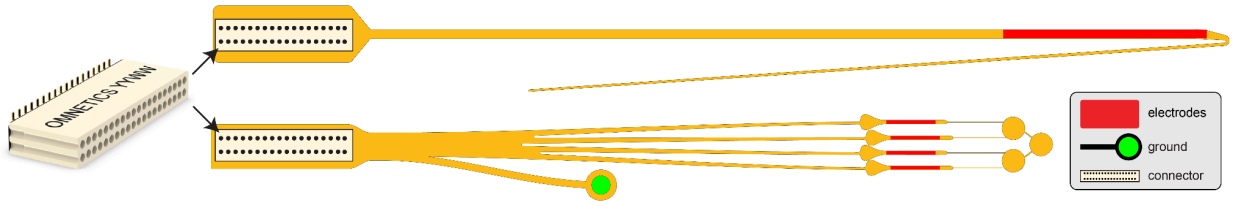
Tools & Supplies

Tools
2 x #5 Forceps Fine-tip metal forceps
2 x #2 Forceps Medium-tip metal forceps
1 x #7 Forceps Curved medium-tip metal forceps
1 x Non-Magnetic Epoxy-Coated AA Forceps Medium forceps, #2AP
1 x Surgical Scissors 10.5 cm, straight blade
1 x Vannas scissors, 3" Small dissecting spring scissors, straight
1 x Scalpel Handle
1 x Retraction Kit for small animals from FST
1 x Hemostats 6" Straight or curved For inserting / removing Omnetics connectors

Supplies
6-0 Sutures, Nylon monofilament; Used to close incision site
8-0 Sutures, Nylon monofilament; Used to secure array to muscle
Dental Cement; Used to adhere Omnetics connector to skull
Sterile Saline; Used to keep muscle pliable
Scalpel Blades, #10 or #11; Used to score skull for improved adhesion

Hardware

Myomatrix arrays are equipped with a high-density connector:



The arrays are assembled with a 36-pin Omnetics connector with 4 guide posts — Omnetics part number NPD-36-VV-GS (A79026) which is compatible with a variety of electrophysiology recording hardware. Note that CAMBER recommends for users new to EMG to record using a **bipolar headstage**. Bipolar mode for recording can give better stability for the recordings.

Below is a list of headstages that are compatible with the Omnetics NPD-36-VV-GS connector based on the descriptions available online, though not an exclusive list. Compatibility with the 36-pin Omnetics connector is the key consideration in choosing an amplifying system.

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Company	Option 1	Option 2	Option 3	Option 4
Blackrock	CerePlex mu (32 channel)			
Intan, Open Ephys	RHD (32 or 64 channels)	RHS 32		
NeuraLynx	HS-64-mux-PTB	QuickClip 72 to Dual Omnetics	HS-36-PTB	ADPT-HS36-N2T-32
Ripple	Nano2	Pico (32 channel)		
Plexon	F3	R		