

Materials List for:

Micro-drive Array for Chronic *in vivo* Recording: Tetrode Assembly

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Materials

Name	Type	Company	Catalog Number	Comments
Panavise	Tool	Panavise	Model 301	Holds either micro-drive array or serrated scissors
Modified Xcelite 378M Pliers	Tool	Newark Inc	96F8903	For inserting connector board pins. To make, remove 2mm from one tip of the pliers.
Slow Cure Glue	Material	Great Planes (Champaign, IL)	GPMP6015	To glue the tetrode to the micro-drive
Gold Plating Solution	Material	Neuralynx Inc.	Sifco Selectron Gold NC	Contains gold particles for electroplating
Current Generator	Tool	World Precision Instruments, Inc.	A365D-B	A.K.A. Stimulus Isolator. Used to electroplate gold solution onto electrode tips.
Impedance Meter	Tool	BAK Electronics	IMP-1 / 6662 / 2788	To check impedance of electrodes
Hot Air Gun	Tool	Steinel (Germany)	HG 3002 LCD	To fuse electrodes together to make tetrode
Accu-Tek Carbofib Tip Tweezers	Tool	Aven	18768 (Pattern 304)	For handling tetrodes
Alligator Clip	Tool	Fine Science Tools	18050-35	A.K.A. Bulldog serrefine. To clip the tetrodes together during twisting
Micro Dissecting Scissors	Tool	Biomedical Research Instruments	25-1000	For general cutting of tetrode/electrode wire
Iris Toughcut Serrated Scissors	Tool	Fine Science Tools	14058-09	For final cut of tetrodes
Teflon Coated Stainless Steel Wire	Material	A-M Systems	790500	Ground wire
12.5 micron nichrome wire	Material	Kanthal Palm Coast	Rediohm-800 1/4 HARD PAC COATING	Polyimide coated micro-wire for making tetrodes.
Tetrode Twister	Tool	Neuralynx Inc.	Tetrode Assembly Station	Increases the speed and consistency of tetrode fabrication.
Silver Paint	Material	GC International	22-023	For connecting the micro-electrode wires of the tetrode to the connector pins (see Discussion)
X-Acto Knife Handle	Material	MSC Direct	X3001	For constructing a micro-drive holding device.
26 Pin, 2 Row Connector	Material	Mill-Max	852-10-026-30-001000	For constructing a micro-drive holding device.