

Quantification of Visual Feature Selectivity of the Optokinetic Reflex in Mice

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jove.com/video/65281

Materials

Name	Company	Catalog Number	Comments
2D translational stage	Thorlabs	XYT1	
Acrylic resin	Lang Dental	B1356	For fixing headplate on skull and protecting skull
Bupivacaine	STERIMAX	ST-BX223	Bupivacaine Injection BP 0.5%. Local anesthesia
Carprofen	RIMADYL	8507-14-1	Analgesia
Compressed air	Dust-Off		
Eye ointment	Alcon	Systane	For maintaining moisture of eyes
Graphic card	NVIDIA	Geforce GTX 1650 or Quadro P620.	For generating single screen among three monitors
Heating pad	Kent Scientific	HTP-1500	For maintaining body temperature
High-speed infrared (IR) camera	Teledyne Dalsa	G3-GM12-M0640	For recording eye rotation
IR LED	Digikey	PDI-E803-ND	For CR reference and the illumination of the eye
IR mirror	Edmund optics	64-471	For reflecting image of eye
Isoflurane	FRESENIUS KABI	CP0406V2	
Labview	National instruments	version 2014	eye tracking
Lactated ringer	BAXTER	JB2324	Water and energy supply
Lidocaine and epinephrine mix	Dentsply Sirona	82215-1	XYLOCAINE. Local anesthesia
Luminance Meter	Konica Minolta	LS-150	for calibration of monitors
Matlab	MathWorks	version xxx	analysis of eye movements
Meyhoefer Curette	World Precision Instruments	501773	For scraping skull and removing fascia
Microscope calibration slide	Amscope	MR095	to measure the magnification of video-oculography
Monitors	Acer	B247W	Visual stimulation
Neutral density filter	Lee filters	299	to generate scotopic visual stimulation
Nigh vision goggle	Alpha optics	AO-3277	for scotopic OKR
Photodiode	Digikey	TSL254-R-LF-ND	to synchronize visual stimulation and video-oculography

Pilocarpine hydrochloride	Sigma-Aldrich	P6503	
Post	Thorlabs	TR1.5	
Post holder	Thorlabs	PH1	
PsychoPy	open source software	version xxx	visual stimulation toolkit
Scissor	RWD	S12003-09	For skin removal
Superglue	Krazy Glue		Type: All purpose. For adhering headplate on the skull