

Materials List for

Intravital Imaging of Fluorescent Protein Expression in Mice with a Closed-Skull Traumatic Brain Injury and Cranial Window Using a Two-Photon Microscope

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jove.com/video/64701

Materials

Name	Company	Catalog Number	Comments
Adjustable Precision Applicator Brushes	Parkell	S379	
BD insulin syringe	BD	NDC/HRI#08290-3284-38	5/16" x 31G
Betadine	Purdue	NDC67618-151-17	including 7.5% povidone iodine
Buprenorphine	PAR Pharmaceutical	NDC 42023-179-05	
Cefazolin	HIKMA Pharmaceutical	NDC 0143-9924-90	
Ceramic Mixing Dish	Parkell	SKU: S387	For dental cement preparation
Cotton Tipped Applicators	ZORO	catlog #: G9531702	
Catalyst	Parkell	S371	full name: "C" Universal TBB Catalyst
Dental cement powder	Parkell	S396	Radiopaque L-Powder for C&B Metabond
Dental drill	Foredom	H.MH-130	
Dental drill controller	Foredom	HP4-310	
Dexamethasone	Phoenix	NDC 57319-519-05	
EF4 carbide bit	Microcopy	Lot# C150113	Head Dia/Lgth/mm 1.0/4.2
Ethonal	Fisher Scientific	04355223EA	75%
FG1/4 carbide bit	Microcopy	Lot# C150413	Head Dia/Lgth/mm 0.5/0.4
FG4 carbide bit	Microcopy	Lot# C150309	Head Dia/Lgth/mm 1.4/1.1
Headpost	N/A	N/A	Custom-manufactured
Heating apparatus	CWE	TC-1000 Mouse	equipped with the stereotaxic instrument and be used while operating surgery
Heating blanket	CVS pharmacy	E12107	extra heating device and be used after surgery
Isoflurane	Pivotal	NDC 46066-755-03	
Isoflurane induction chamber	Vetequip	89012-688	induction chamber for short

Isoflurane volatilizing machine	Vetequip	911103	
Isoflurane volatilizing machine holder	Vetequip	901801	
Leica surgical microscope	Leica	LEICA 10450243	
Lubricant ophthalmic ointment	Picetal	NDC 46066-753-55	
Marker pen	Delasco	SMP-BK	
Meloxicam	Norbrook	NDC 55529-040-10	
Microinjection pump and its controller	World Precision Instruments	micro4 and UMP3	
Microliter syringe	Hamilton	Hamilton 80014	1701 RN, 10 μ L gauge for syringe and 32 gauge for needle, 2 in, point style 3
Mosquito forceps	CAROLINA	Item #:625314	Stainless Steel, Curved, 5 in
Depilatory agent	McKesson Corporation	N/A	Nair Hair Aloe & Lanolin Hair Removal Lotion
Microscope 1	Nikon	SMZ745	Nikon microscope for cranial window preparation
Microscope 2	Zeiss	LSM 7 MP	two-photon microscope
Multiphoton laser	Coherent	Chameleon Ultra II, Model: MRU X1, VERDI 18W	laser for two-photon microscopy
Non-absorbable surgical suture	Harvard Apparatus	catlog# 59-6860	6-0, with round needle
Norland Optical Adhesive 81	Norland Products	NOA 81	
No-Snag Needle Holder	CAROLINA	Item #: 567912	
Quick base liquid	Parkell	S398	"B" Quick Base For C&B Metabond
Regular scissor 1	Eurostat	eurostat es5-300	
Regular scissor 2	World Precision Instruments	No. 501759-G	
Round cover glass 1	Warner instruments	CS-5R Cat# 64-0700	for 5 mm of diameter
Round cover glass 2	Warner instruments	CS-3R Cat# 64-0720	for 3 mm of diameter
Rubber rings	Orings-Online	Item # OO-014-70-50	O-Rings
Saline	Bioworld	L19102411PR	
Spring scissor 1	World Precision Instruments	No. 91500-09	tip straight
Spring scissor 2	World Precision Instruments	No. 91501-09	tip curved
Stereotaxic platform	KOPF	Model 900LS	
Super glue	Henkel	Item #: 1647358	
surgical Caliper	World Precision Instruments	No. 501200	
Surgical forceps 1	ELECTRON MICROSCOPY SCIENCES	Catlog# 0508-5/45-PO	style 5/45, curved
Surgical forceps 2	ELECTRON MICROSCOPY SCIENCES	catlog# 0103-5-PO	style 5, straight
Surgical forceps 3	ELECTRON MICROSCOPY SCIENCES	catlog# 72912	
Surgical forceps 4	ELECTRON MICROSCOPY SCIENCES	Catlog# 0508-5/45-PO	style 5/45, curved
Surgical gauze	ZORO	catlog #: G0593801	
Surgical lamp	Leica	Leica KL300 LED	
UV box	Spectrolinker	XL-1000	also called UV crosslinker
Vaporguard	Vetequip	931401	
Vetbond Tissue Adhesive	3M Animal Care	Part Number:014006	