

Materials List for:

# Simultaneous PET/MRI Imaging During Mouse Cerebral Hypoxia-ischemia

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## Materials

Name	Company	Catalog Number	Comments
Surgery			
Surgical scissors	Roboz	RS-5852	
Forceps	Roboz	RS-5237	
Hartman mosquito forceps	Miltex	7-26	
2x McPherson suturing forceps, 8.5 cm	Accurate Surgical & Scientific Instruments	4473	It is useful to reduce the opening width with a band on the forceps used to hold the carotid artery
6-0 silicone coated braided silk suture with 3/8 C-1 needle	Covidien Sofsilks	S-1172	
Homeothermic blanket system	Harvard Apparatus	507220F	
Super glue	(Generic)		
Hypoxia			
Flowmeter for O2	Alicat Scientific	MC-500SCCM-D	
Flometer for N2	Alicat Scientific	MC-5SLPM-D	
O2 meter	MSA	Altair Pro	
Imaging			
7.05 Tesla MRI System	Bruker	BioSpec	20 cm inner bore diameter with gradient set. Paravision 5.1 software.
Volume Tx/Rx 1H Coil, 35 mm ID	Bruker	T8100	
PET system	(In-house)		4x24 LSO-PSAPD detectors, 10x10 LSO array per detector, 1.2 mm crystal pitch and 14 mm depth. 14 x 14 mm PSAPD. FOV: 60x35 mm. 350-650 keV energy window. 16 nsec timing window.
Vessel cannulation Dumont forceps	Roboz	RS-4991	
PE-10 polyethylene tubing	BD Intramedic	427401	
Infusion pump	Braintree Scientific	BS-300	
Animal monitoring & gating equipment	Small Animal Instruments Inc.	Model 1025	Only respiration monitoring used
Animal bed with temperature regulation	(In-house)		