

Materials List for:

# In Vivo 4-Dimensional Tracking of Hematopoietic Stem and Progenitor Cells in Adult Mouse Calvarial Bone Marrow

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## Materials

Name	Company	Catalog Number	Comments
Ketamine (Narketan 100 mg/ml)	Vetoquinol	407575 0107 C	Other anesthetics may be used in place of this.
Medetomidine (Domitor 1 mg/ml)	Elanco	134800-2	Other analgesics may be used in place of this.
Vibrant DiD cell labeling solution	Roche Products Ltd.	V22887	Other colors are available and may be used if required.
Lacrilube ophthalmic ointment	Allergan	n/a	available by prescription by the local vet
Kemdent "Diamond Carve" glass ionomer cement	Associated Dental Products Ltd. via Kemdent	SUN527	We use shade A3, but any shade of cement can be used.
PBS	multiple equivalent		
Insulin syringes	Terumo Medical Corporation	SS10M3109	1 ml, 31 G
Mouse restrainer	Harvard Apparatus	340031	Cone type (small)
Autoclaved forceps and scissors	Agar Scientific	AGT577 AGT5034	Iris scissors - 90 mm; Dumont HP tweezers (0.06 mm tip)
Weigh boat and cement stirrer	VWR	611-1996/231-0370	5 ml weigh-boat (black)/ Wooden tongue depressor
Leica SP5 upright confocal microscope with motorized stage and two-photon laser	Leica Microsystems		Call for quote
25x water dipping objective lens (N.A. = 0.95)	Leica Microsystems	11506323	HCX IRAPO L lens
Custom designed mouse holder	Imperial College Engineering Workshop		See Figure 1 for details
Heating pad with rectal thermometer probe	BASi Instrumentation	FHC-40902/ FHC-40908/ FHC-4090502	Heat mat/ Control box/ Thermometer probe