

Materials List for

Partial Heterotopic Hindlimb Transplantation Model in Rats

Marion Goutard^{1,2,3}, Mark A. Randolph^{1,2,3}, Corentin B. Taveau^{1,2,3,4}, Elise Lupon^{1,2,3}, Laurent Lantieri⁴, Korkut Uygun^{1,2,3}, Curtis L. Cetrulo Jr.^{*1,2,3}, Alexandre G. Lellouch^{*1,2,3,4}

¹Division of Plastic and Reconstructive Surgery, Massachusetts General Hospital, Harvard Medical School ²Vascularized Composite Allotransplantation Laboratory, Center for Transplantation Sciences, Massachusetts General Hospital, Harvard Medical School ³Shriners Hospital for Children ⁴Service de Chirurgie Plastique, Hôpital Européen Georges Pompidou, Assistance Publique-Hôpitaux de Paris (APHP), Université de Paris

*These authors contributed equally

Corresponding Author

Alexandre G. Lellouch
alellouch@mgh.harvard.edu

Citation

Goutard, M., Randolph, M.A., Taveau, C.B., Lupon, E., Lantieri, L., Uygun, K., Cetrulo Jr., C.L., Lellouch, A.G. Partial Heterotopic Hindlimb Transplantation Model in Rats. *J. Vis. Exp.* (), e62586, doi:10.3791/62586 (2021).

Date Published

June 9, 2021

DOI

10.3791/62586

URL

jove.com/video/62586

Materials

Name	Company	Catalog Number	Comments
24 GA angiocatheter	BD Insyte Autoguard	381412	
4-0 suture Black monofilament non absorbable suture	Ethicon	1667	Used to suture the E-collar to the back of the neck
4-0 suture Coated Vicryl Plus Antibacterial	Ethicon	VCP496	
Adson Tissue Forceps, 11 cm, 1 x 2 Teeth with Tying Platform	ASSI	ASSI.ATK26426	
Bipolar cords	ASSI	228000C	
Black Polyamide Monofilament USP 10-0, 4 mm 3/8c	AROSurgical	T04A10N07-13	Used to perform the microvascular anastomoses
Buprenorphine HCl	Pharmaceutical, Inc	42023-179-01	
Dilating Forceps	Fine science tools (FST)	18131-12	
Dissecting Scissors 15 cm, Round Handle 8 mm diameter, Straight Slender Tapered Blade 7 mm, Lipshultz Pattern	ASSI	ASSI.SAS15RVL	
Double Micro Clamps 5.5 x 1.5 mm	Fine science tools (FST)	18040-22	
Elizabethan collar	Braintree Scientific	EC-R1	
Forceps 13.5 cm long, Flat Handle, 9 mm wide Straight Tips 0.1 mm diameter (x2)	ASSI	ASSI.JFL31	
Halsey Micro Needle Holder	Fine science tools (FST)	12500-12	
Heparin Lock Flush Solution, USP, 100 units/mL	BD PosiFlush	306424	
Isoflurane	Patterson Veterinary	14043-704-06	
Jewelers Bipolar Forceps Non Stick 11 cm, straight pointed tip, 0.25 mm tip diameter	ASSI	ASSI.BPNS11223	

Lone Star Elastic Stays	CooperSurgical	3314-8G	Used to retract the inguinal ligament for femoral vessels dissection
Lone Star Self-Retaining Retractors	CooperSurgical	3301G	
Micro-Mosquito Hemostats	Fine science tools (FST)	13010-12	Used to retract the inguinal fat pad distally
Needle Holder, 15 cm Round Handle, 8 mm diameter, Superfine Curved Jaw 0.2 mm tip diameter, without lock	ASSI	ASSI.B1582	
Nylon Suture Black Monofilament 8-0, 6.5 mm 3/8c	Ethilon	2808G	Used to ligate collateral branches on the femoral vessels
Offset Bone Nippers	Fine science tools (FST)	16101-10	
S&T Vascular Clamps 5.5 x 1.5 mm	Fine science tools (FST)	00398-02	
Walton scissors	Fine science tools (FST)	14077-09	