

Materials List for:

Percutaneous Contrast Echocardiography-guided Intramyocardial Injection and Cell Delivery in a Large Preclinical Model

Alejandro Giraldo^{*1}, Jesús Talavera López^{*2}, Maria Josefa Fernandez-Del-Palacio², Obdulio García-Nicolás^{3,4}, Juan Seva⁴, Gavin Brooks¹, José María Moraleda⁵

¹Institute for Cardiovascular and Metabolic Research, School of Biological Sciences, University of Reading

²Departamento de Medicina y Cirugía Animal, Facultad de Veterinaria, Universidad de Murcia

³Institute of Virology and Immunology (IVI)

⁴Departamento de Anatomía y Anatomía Comparada, Facultad de Veterinaria, Universidad de Murcia

⁵Unidad de Trasplante Hematopoyético y Terapia Celular, Departamento de Hematología, Hospital Universitario Virgen de la Arrixaca, IMIB, Universidad de Murcia

*These authors contributed equally

Correspondence to: Alejandro Giraldo at a.giraldoramirez@reading.ac.uk, Jesús Talavera López at talavera@um.es

URL: <https://www.jove.com/video/56699>

DOI: [doi:10.3791/56699](https://doi.org/10.3791/56699)

Materials

Name	Company	Catalog Number	Comments
HD11 XE Ultrasound System	Philips	10670267	Echocardiography system.
S12-4	Philips	B01YgG	4-12 MHz phase array transducer
Ultrasound Transmission Gel (Aquasone)	Parket laboratories Inc	N 01-08	
Vasovet 24G	Braun	REF 381212	over-the-needle catheter
Omnifix-F 1 ml syringe	Braun	9161406V	
Imalgene (Ketamine)	Merial	RN 9767	Veterinary prescription is necessary
Domtor (Medetomidine)	Esteve	CN 570686.3	Veterinary prescription is necessary
Heating Pad			
Faber-Castel TG1	Faber-Castel	16 33 99	India (China) Ink
Holter Syneflash	Ela medical	SF0003044S	24 h Holter ECG system.
Electrodes Blue Sensor®	Ambu (NUMED)	VLC-00-S	Holter ECG electrodes.
Microtome	Leica Biosystems	RM2155	
Microscope	Olimpus	CO11	
ABC Vector Elite	Vector Laboratories	PK-6200	Avidin Biotin Complex Kit.
Chicken anti-GFP antibody	Invitrogen	A10262	Primary antibody.
Biotinylated goat-anti-chicken IgG Antibody	Vector Laboratories	BA-9010	Secondary Antibody.
3,30-diaminobenzidine tetrahydrochloride (DAB)	DAKO (Agilent)	S3000	
Fluorescence Microscope	Carl Zeiss Microimaging	Zeiss AX10 Axioskop	
Holter ECG	Elamedical	Syneflash SF0003044S	
Dulbecco's modified Eagle medium (DMEM)	Fisher Scientific	11965084	
10% fetal calf serum (FCS)	Fisher Scientific	11573397	
0.05% Trypsin-Ethylenediaminetetraacetic acid (EDTA)	Fisher Scientific	25300054	

Lipofectamine 2000 (Lipid transfection reagent)	Fisher Scientific	11668019	
Reduced serum medium (Opti-MEM)	Fisher Scientific	31985070	
Hygromycin B	Calbiochem (MERCK)	400051	
Xylene (histological)	Fisher Scientific	X3S-4	
Hydrogen Peroxide Solution (H ₂ O ₂)	Sigma	H1009	
Pronase	Fisher Scientific	53-702-250KU	