

Materials List for:

Analyzing Satellite Cell Function During Skeletal Muscle Regeneration by Cardiotoxin Injury and Injection of Self-delivering siRNA In Vivo

Hellen E. Ahrens^{*1}, Henriette Henze^{*1}, Svenja C. Schüler¹, Manuel Schmidt¹, Sören S. Hüttner¹, Julia von Maltzahn¹

¹Leibniz-Institute on Aging - Fritz-Lipmann-Institute

*These authors contributed equally

Correspondence to: Julia von Maltzahn at julia.vonmaltzahn@leibniz-fl.de

URL: <https://www.jove.com/video/60194>

DOI: [doi:10.3791/60194](https://doi.org/10.3791/60194)

Materials

Name	Company	Catalog Number	Comments
Isoflurane	Henry Schein	Isothesia	inhalation narcotics
Hot Plate 062	Labotect	13854	
Anesthesia System (Tec 7) with inhalation box + nose masks	Tem Sega	Minihub	
Shaver for rodents	isis	GT420	
Cardiotoxin	Latoxan	L8102	snake venom needed for muscle injury
Accell siRNA smart pool	Dharmacon	depending on your target gene	self delivering siRNA
Alexa Fluor 488 donkey anti-rabbit IgG	Thermo Fisher	A-21206	secondary antibody
Alexa Fluor 546 goat anti-mouse IgG1	Thermo Fisher	A-21123	secondary antibody
Coverslips	VWR	631-1574	
CV Mount	Leica	14046430011	mounting medium for immunohistochemistry
DAPI	Sigma Aldrich	D9542	nuclear staining
devMHC antibody	DHSB	F.1652	
Eosin Y	Thermo Fisher	73104	
Haematoxylin Gill No3	Sigma-Aldrich	GHS316-500ML	
Insulin syringe (29 g)	Terumo	3SS05M2813	syringue used for muscle injections
Laminin antibody	Sigma Aldrich	L9393	
M.O.M blocking reagent	Vector labs	MKB-2213	blocking for immunofluorescent staining
Meloxicam	Boehringer Ingelheim	Metacam	analgesics
OCT	Thermo Fisher	6502	tissue embedding
Pax7 antibody	DSHB	PAX7	satellite cell specific antibody
ProLong Gold Antifade Mountant	Thermo Fisher	P36934	aequos mounting medium
Sucrose	Carl Roth	4621.1	tissue embedding
Superfrost plus	Thermo Scientific	J1830AMNZ	microscope slides
TritonX-100	Amresco	0694-1L	permeabilization reagent
Dissection tools			
Dumont 5, straight	Fine Science Tools	11295-10	
Dumont 7, curved	Fine Science Tools	11272-40	
Extra fine Bonn scissors (cutting edge: 13 mm)	Fine Science Tools	14084-08	

Narrow pattern forceps	Fine Science Tools	11002-16	
Spring scissors (cutting edge: 5 mm, tip diameter: 0.35 mm)	Fine Science Tools	91500-09	