

Materials List for:

# Subretinal Transplantation of Human Embryonic Stem Cell Derived-retinal Pigment Epithelial Cells into a Large-eyed Model of Geographic Atrophy

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URL: <https://www.jove.com/video/56702>

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## Materials

Name	Company	Catalog Number	Comments
NutriStem hESC XF differentiation medium –bFGF and –TGFb	Biological Industries	06-5100-01-1A	
TrypLE Select 1x	Gibco, ThermoFisher Scientific Corp	12563-011	
PBS without Ca <sup>2+</sup> and Mg <sup>2+</sup>	Gibco, ThermoFisher Scientific Corp	14190-094	
Cell strainer 40 µm Nylon	VWR	732-2757	
Needle 30 G 0.5"; 0.3 mm x 13 mm	BD Microlance	304827	
Acrodisc 25 mm Syringe Filter	Acrodisc	PN4612	
0.4% trypan blue	ThermoFisher Scientific Corp	15250061	Use at 0.2%
NaIO <sub>3</sub>	Sigma-Aldrich Corp	S4007	
BSS	Alcon Nordic A/S	65079550	
70% Ethanol	Solveco AB	1047	
Ketaminol, 100 mg/mL	Intervet, Boxmeer	511519	Use 35 mg/kg ketamine
Rompun vet, 20 mg/mL	Bayer Animal Health	22545	Use 5 mg/kg xylazine
Triescence, 40 mg/mL	Alcon Nordic A/S	412915	2 mg intravitreal
Cyklopentolat-phenylephrine, 0.75% + 2.5%	APL	321968	Use 1 drop in each eye
Viscotears	Laboratoires Théa	597562	
Topical saline	Apotea AB	7053249369080	
Allfatal vet. 100 mg/mL	Omnidea	77168	Use 100 mg/mL pentobarbital
Extension tube (Hammer)	MedOne Surgical Inc	3223	
25 G/38 G polytip subretinal cannula	MedOne Surgical Inc	3219	25 G/38 G
Single Use Flat Lens	Volk	#VWFD10	
Barraquer Colibri lid retractor	AgnTho's AB	42-020-030	
Non-valved trocars	Alcon Nordic A/S	8065751448	
Clawed forceps	Bausch & Lomb Nordic AB	ET1811	
Alcon Accurus 400VS Vitrectomy machine	Alcon Nordic A/S	8065740238	
Accurus 25+ Gauge Vitrectomy TotalL Plus Pak	Alcon Nordic A/S	8065751493	
SD-OCT device	Heidelberg Engineering	Spectralis HRA+OCT	Use Heidelberg Eye Explorer version 1.9.10.0

24 well plates	Sarstedt	83.3922	
Neubauer hemocytometer	VWR	631-0925	
New Zealand albino rabbits	Lidköpings Rabbit Farm, Sweden		
hESC-RPE cells			See reference number <sup>1</sup>
Buprenodale Vet, 0.3 mg/ml	Dechra	660500	Use 0.5 mL buprenorphine subcutaneously