

Materials List for:

Experimental Models for Study of Retinal Pigment Epithelial Physiology and Pathophysiology

Arvydas Maminishkis¹, Sheldon S. Miller¹

¹National Eye Institute, National Institutes of Health

Correspondence to: Sheldon S. Miller at millers@nei.nih.gov

URL: <https://www.jove.com/video/2032>

DOI: [doi:10.3791/2032](https://doi.org/10.3791/2032)

Materials

Name	Company	Catalog Number	Comments
Instruments needed for dissection protocol			
Stereo Microscope - any available with working magnification x250 needed for dissection			
Dissecting dish - e.g. Kimble 100 x 20mm #23062 (one per dissection) any source			
Sylgard 184 - WPI Cat. #SYLG184*			
* To prepare dissecting dish follow Sylgard 184 included mixing instructions, pour mixed liquid elastomer into Petri dish to form 5-8mm layer. Allow elastomer to cure for at least 24hrs. Dish with cured elastomer can be sterilized using 70% ethanol and reused multiple times (~100 times)			
27 G needles from B-D PrecisionGlide 1¼ length (5 per dissection) any source			
HBSS 1X Solution containing Ca and Mg salts - GIBCO Cat.#14025 500ml (good for multiple dissections)			
Iris scissors carbide serrated blade, curved - FST Cat.# 14559-11 (one)			
Retinal scissors - Katena Cat.#K4-5300 (one)			
Forceps - e.g. Dumont Tweezers #5 with polished tips from WPI Cat.#500085 (2 pieces)			
Sideport knife - Alcon, ClearCut 1mm, Dual Bevel, angled Cat.#8065921540			
Centrifuge tube 15ml - (one per eye) any source			
Pasteur glass pipette - (one per dissection) any source			
Plate 12 well (one per dissection) any source			

Primaria 25cm ² flask - (2-3 per eye) any source			
---	--	--	--