

Materials List for:

***In vivo*-like Organotypic Murine Retinal Wholemount Culture**

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Materials

Name	Type	Company	Catalog Number	Comments
Mice	Animal	Charles River Laboratories		
Dissection microscope	Tool	Carl Zeiss, Inc.		
PBS	Reagent	Sigma-Aldrich		PBS should be cold (> 4°C) and sterile
Dulbecco's modified eagle's medium / nutrient mixture F-12 Ham	Reagent	Sigma-Aldrich	D 8900	DMEM / F-12
Apo-transferin	Reagent	Sigma-Aldrich	T 1147	
Putrescin	Reagent	Sigma-Aldrich	P 5780	
Sodium selenite	Reagent	Sigma-Aldrich	S 9133	
Progesterone	Reagent	Sigma-Aldrich	P 6149	
Gentamicine	Reagent	Invitrogen		
L-Glutamine	Reagent	Invitrogen	25030-024	200 mM (100X), liquid
Bovine serum albumine (BSA)	Reagent	Carl Roth GmbH	8076.3	30 mg/ml
Collagenase	Reagent	Sigma-Aldrich	C 0773	200 U/ml
Trypsin	Reagent	Sigma-Aldrich	T4799	From porcine pancreas; 1 mg/ml
Hyaluronidase	Reagent	Sigma-Aldrich	H 3884	200 mg/ml
DNase I	Reagent	Roche Group	1 284 932	10 mg/ml
EDTA	Reagent	Sigma-Aldrich	E 6511	
Silicone solution	Reagent	SERVA Electrophoresis	35130	
Paraformaldehyde (PFA)	Reagent	Sigma-Aldrich	P6148	8% PFA in 0.1M phosphate buffer (pH 7.4).
4',6-diamidino-2-phenylindole dihydrochloride	Reagent	Sigma-Aldrich	D 0542	DAPI
Fluorescent Mounting Medium	Reagent	Dako	S3023	
BrDU	Reagent	Sigma-Aldrich	B 9285	
96-well plates	Tool	Falcon BD	3072	
24-well plates	Tool	Falcon BD	3047	
Pasteur pipettes	Tool	Brand GmbH	747720	
Forceps DUMONT #5	Tool	Fine Science Tools	11252-30	bevelled very fine shanks (0.05 mm x 0.02 mm tip)
Forceps DUMONT #7	Tool	Fine Science Tools	11271-30	curved shanks (0.07 mm x 0.10 mm tip)
Spring scissors, straight, 8cm	Tool	Fine Science Tools	15000-00	fine, small straight blades

Standard scissors, straight, sharp/blunt	Tool	Fine Science Tools	14007-14	Use for decapitation or cervical dislocation
Eppendorf tubes	Tool	Eppendorf		2ml; round bottom for better precipitation of pellet during centrifugation /cytospin
Cooling centrifuge	Tool	Eppendorf		
Rotation shaker	Tool	CAT		
Cytospin	Tool	Thermo Fisher Scientific, Inc.		