

Materials List for

Retinal Organoid Induction System for Derivation of 3D Retinal Tissues from Human Pluripotent Stem Cells

Yuanyuan Guan^{*1}, Bingbing Xie^{*1}, Xiufeng Zhong¹

¹State Key Laboratory of Ophthalmology, Zhongshan Ophthalmic Center, Sun Yat-sen University, Guangzhou, China, 510060

*These authors contributed equally

Corresponding Author

Xiufeng Zhong
zhongxf7@mail.sysu.edu.cn

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Materials

Name	Company	Catalog Number	Comments
(-)-Blebbistatin	Sigma	B0560-5mg	ROCK-inhibitor
1 ml tips	Kirgen	KG1313	1 ml
10 ml pipette	Sorfa	3141001	Pipette
100 mm Tissue culture	BIOFIL	TCD000100	100 mm Petri dish
100 mm Tissue culture	Falcon	353003	100 mm Petri dish
15 ml Centrifuge tubes	BIOFIL	CFT011150	Centrifuge tubes
35 mm Tissue culture dishes	Falcon	353001	35 mm Petri dish
5 ml pipette	Sorfa	313000	Pipette
50 ml Centrifuge tubes	BIOFIL	CFT011500	Centrifuge tubes
6 wells tissue culture plates	Costar	3516	Culture plates
Anti-AP2α Antibody	DSHB	3b5	Primary antibody
ANTIBIOTIC ANTIMYCOTIC 100X	Gibco	15240062	Antibiotic-Antimycotic
Anti-ISL1 Antibody	Boster	BM4446	Primary antibody
Anti-Ki67 Antibody	Abcam	ab15580	Primary antibody
Anti-L/M opsin Antibody	gift from Dr. jeremy	/	Primary antibody
Anti-PAX6 Antibody	DSHB	pax6	Primary antibody
Anti-rabbit 555	Invitrogen	A31572	Donkey anti-Rabbit IgG (H+L) Secondary Antibody, Alexa Fluor 555
Anti-Recoverin Antibody	Millipore	ab5585	Primary antibody
Anti-Rhodopsin Antibody	Abcam	ab5417	Primary antibody
Anti-sheep 555	Invitrogen	A21436	Donkey anti-Sheep IgG (H+L) Secondary Antibody, Alexa Fluor 555
Anti-SOX9 Antibody	Abclonal	A19710	Primary antibody
Anti-VSX2 Antibody	Millipore	ab9016	Primary antibody
B-27 supplement W/O VIT A (50X)	Gibco	12587010	Supplement
Cryotube vial	Thermo scientific-NUNC	375418	1.8 ml
DAPI	DOJINDO	D532	4',6-Diamidino-2-phenylindole dihydrochloride; multiple suppliers

Dimethyl sulphoxide(DMSO) Hybri-max	Sigma	D2650-100ML	Multiple suppliers
DMEM	Gibco	C11995500BT	Medium
DMEM /F12	Gibco	C11330500BT	Medium
EDTA	Invitrogen	15575-020	0.5 M PH 8.0
FBS	NATOCOR	SFBE	Serum
Filter	Millipore	SLGP033RB	0.22µm, sterile Millex filter
GlutaMax, 100X	Gibco	35050061	L-alanyl-L-glutamine
Heparin	Sigma	H3149	2 mg/ml in PBS to use
Matrigel, 100x	Corning	354277	Extracellular matrix (ECM)
MEM Non-Essential Amino Acids Solution (100X)	Gibco	11140050	MEM NEAA
mTeSR1	STEM CELL	85850	hPSCs maintenance medium (MM)
N2 supplement	Gibco	17502048	Supplement
Phosphate-buffered saline (PBS) buffer	GNM	GNM10010	Without Ca ⁺ ,Mg ⁺ ,PH7.2±0.1 0.1M
Taurine	Sigma	T0625	Supplement
Ultra-low attachment culture dishes 100mm petri dish, low-attachment	Corning	CLS3262-20EA	Petri dish