

Materials List for

# Generation of Human Patient iPSC-derived Retinal Organoids to Model Retinitis Pigmentosa

Chao Ma<sup>1</sup>, Kangxin Jin<sup>\*1</sup>, Zi-Bing Jin<sup>1</sup>

<sup>1</sup>Beijing Tongren Hospital, Beijing Institute of Ophthalmology, Beijing Ophthalmology & Visual Science Key Laboratory, Beijing Tongren Eye Center, Capital Medical University

\* These authors contributed equally

## Corresponding Author

Zi-Bing Jin

jinz502@ccmu.edu.cn

## Citation

Ma, C., Jin, K., Jin, Z.B. Generation of Human Patient iPSC-derived Retinal Organoids to Model Retinitis Pigmentosa. *J. Vis. Exp.* (184), e64045, doi:10.3791/64045 (2022).

## Date Published

June 16, 2022

## DOI

10.3791/64045

## URL

jove.com/video/64045

## Materials

Name	Company	Catalog Number	Comments
96 V-bottomed conical wells	Sumitomo Bakelite	MS-9096VZ	
A-83-01	R&D Systems	2939/10	
Adhesion microscope slides	CITOTest	188105	
Agarose	Gene Tech	111760	
Amaxa Nucleofector 2b Device	Lonza	AAB-1001	Transfection system
B-27	Thermo Fisher Scientific	17504044	
bFGF	R&D Systems	3718-FB	
Blebbistatin	Nuwacell Biotechnologies	RP01008	
Blood collection tube	BD Vacutainer EDTA	366643	
CHIR99021	TOCRIS	4423/10	
Cover slides	CITOGlas	10212440C	
cTarget hPSC Medium	Nuwacell Biotechnologies	RP01020	
DAPI	Invitrogen	D-1306	
DMEM/Ham's F12	Gibco	10565-042	
Donkey anti-mouse 488	Invitrogen	A-21202	
Donkey anti-rabbit 594	Invitrogen	A-21207	
EDTA	Nuwacell Biotechnologies	RP01007	
Embedding medium	FluorSave™ Reagent	345789	
EX-CYTE growth enhancement medium	Sigma	811292	Growth enhancement medium
Fetal bovine serum	Gibco	04-002-1A	
Ficoll	Sigma-Aldrich	26873-85-8	Density gradient medium
FLT3L	Peptotech	300-19	
GlutaMAX	Life Technologies	35050-061	L-glutamine supplement
HA-100	STEMCELL Technologies	72482	
Ham's F12	Gibco	11765-054	
hLIF	Thermo Fisher Scientific	AF-250-NA	

Homogenizer	EDEN lab	D-130	
IL-3	Peprotech	213-13	
IL-6	Peprotech	200-06	
Iscove's Modified Dulbecco Medium	Gibco	12440053	
KnockOut Serum Replacement - Multi-Species	Gibco	A3181502	Serum replacement media
L/M-opsin	Millipore	ab5405	
Monothioglycerol	Sigma	M6145	
N-2 supplement	Thermo Fisher Scientific	17502048	
Nanodrop Spectrophotometer	Thermo Fisher Scientific	ND2000	Spectrophotometer
ncEpic 125x Supplement	Nuwacell Biotechnologies	RP01001-02	125x Supplement
ncEpic Basal Medium	Nuwacell Biotechnologies	RP01001-01	Basal hpSC medium
ncLaminin511 human recombinant protein	Nuwacell Biotechnologies	RP01025	
PD0325901	STEMCELL Technologies	72182	
Penicillin-streptomycin	Gibco	15140-122	
Recombinant human BMP4	R&D Systems	314-BP	
Retinoic acid	Sigma	R2625	
Rhodopsin	Sigma	O4886	
RNeasy Mini Kit	Qiagen	74104	
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siL6-R	Thermo Fisher Scientific	RP-75602	
StemSpan SFEM medium	STEMCELL Technologies	09600	
Taurine	Sigma	T8691	
Trizol reagent	Invitrogen	15596026	
Vitronectin	Nuwacell Biotechnologies	RP01002	
V-Lance knife	Alcon Surgical	8065912001	