

Materials List for

# 2D and 3D Human Induced Pluripotent Stem Cell-Based Models to Dissect Primary Cilium Involvement during Neocortical Development

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## Materials

Name	Company	Catalog Number	Comments
2-Mercaptoéthanol (50 mM)	ThermoFisher Scientific	31350010	
6-well Clear Flat Bottom Ultra-Low Attachment Multiple Well Plates	Corning	3471	
96-well Clear Round Bottom Ultra-Low Attachment Microplate	Corning	7007	
B-27 Supplement (50X), minus vitamin A	ThermoFisher Scientific	12587010	
B-27 Supplement (50X), serum free	ThermoFisher Scientific	17504044	
CellAdhere Dilution Buffer	StemCell Technologies	7183	
DMEM/F-12, Glutamax	ThermoFisher Scientific	31331028	
DMSO	ATCC	4-X	
Dorsomorphin	StemCell Technologies	72102	
Easy Grip 35 10mm	Falcon	353001	
EDTA	ThermoFisher Scientific	15575020	
EGF , 25µg	Thermofischer	PHG0315	
FGF2 , 25µg	Thermofischer	PHG0264	
Gentle Cell Dissociation Reagent	StemCell Technologies	7174	
Insulin	ThermoFisher Scientific	12585014	
KnockOut Serum	ThermoFisher Scientific	10828028	
Laminin (1mg)	Thermofischer	23017015	
LDN193189	StemCell Technologies	72147	

Matrigel Growth Factor Reduced	Corning	354230	
MEM Non-Essential Amino Acids Solution (100X)	ThermoFisher Scientific	11140050	
Mowiol 4-88	Sigma Aldrich	81381-250G	
mTeSR1	StemCell Technologies	85850	
Neural Basal Medium	ThermoFischer	21103049	
Orbital shaker	Dutscher	995002	
PBS	ThermoFisher Scientific	14190094	
Penicillin-Streptomycin (10,000 U/ mL)	ThermoFisher Scientific	15140122	
PFA 32%	Electron Microscopy Sciences	15714	
Poly-L-Ornithine (PO)	Sigma	P4957	
Recombinant human BDNF 10 µg	Stem Cell Technologies	78005	
Recombinant Human FGF-basic	Peptotech	100-18B	
rSHH	R&D Systems	8908-SH	
SAG	Santa Cruz	Sc-202814	
SB431542	StemCell Technologies	72232	
Stembeads FGF2	StemCulture	SB500	
Sucrose	Sigma Aldrich	S7903-250G	
Superfrost Plus Adhesion Slides	Thermo Scientific	J1800AMNZ	
Supplément N2- (100X)	ThermoFisher Scientific	17502048	
TDE 2,2'-Thiodiethanol	Sigma Aldrich	166782-500G	
Vitronectin	StemCell Technologies	7180	
Y-27632	StemCell Technologies	72304	
<b>Primary Antibodies</b>			
ARL13B	Abcam	Ab136648	1/200e
ARL13B	Proteintech	17711-1-AP	1/500e
CTIP2	Abcam	Ab18465	1/500e
GLI2	R&D Systems	AF3526	1/100
GPR161	Proteintech	13398-1-AP	1/100
N-Cadherin	BD Transduction Lab	610921	1/500e
P-Vimentin	MBL	D076-3	1/500e
PAX6	Biolegend	PRB-278P	1/200e
PCNT	Abcam	Ab4448	1/1000e
S0X2	R&D Systems	MAB2018	1/200e
SATB2	Abcam	Ab51502	1/200e
TBR2	Abcam	Ab216870	1/400e
TPX2	NovusBio	NB500-179	1/500e
γ-TUBULIN	Sigma Aldrich	T6557	1/500e
<b>Secondary Antibodies</b>			
Donkey anti-rabbit AF488	ThermoFisher Scientific	A21206	1/500e
Goat anti-mouse AF555	ThermoFisher Scientific	A21422	1/500e
Goat anti-mouse AF647	ThermoFisher Scientific	A21236	1/500e
Goat anti-rat AF555	ThermoFisher Scientific	A21434	1/500e