

# Comparison of Two Representative Methods for Differentiation of Human Induced Pluripotent Stem Cells into Mesenchymal Stromal Cells

Fangqin Wang<sup>1</sup>, Langping Gao<sup>2,3</sup>, Xudong Fu<sup>4</sup>, Qintao Yan<sup>2</sup>, Lidan Hu<sup>1,2</sup>, Jianhua Mao<sup>2,3</sup>

<sup>1</sup>National Clinical Research Center for Child Health, The Children's Hospital, Zhejiang University School of Medicine <sup>2</sup>Department of Nephrology, The Children's Hospital, Zhejiang University School of Medicine <sup>3</sup>Zhejiang University School of Medicine <sup>4</sup>Liangzhu Laboratory, Zhejiang University

## Corresponding Authors

**Lidan Hu**  
hulidan@zju.edu.cn

**Jianhua Mao**  
maojh88@zju.edu.cn

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## Materials

Name	Company	Catalog Number	Comments
Alizarin red staining kit	Beyotime Biotechnology	C0148S	
Anti-human-CD105 (PE)	Biolegend	323206	
Anti-human-CD34 (FITC)	Biolegend	343503	
Anti-human-CD45 (APC)	Biolegend	304011	
Anti-human-CD73( APC)	Biolegend	344006	
Anti-human-CD90 (FITC)	Biolegend	328108	
Ascorbic acid	Solarbio	A8100	
BMP-6	Novoprotein	C012	
Carbon dioxide level shaker	Crystal	CO-06UC6	
Compensation Beads	BioLegend	424601	
CryoStor CS10	STEMCELL Technology	07959	
Dexamethasone	Beyotime Biotechnology	ST1254	
DMEM/F12 medium	Servicebio	G4610	
Fetal bovine serum	HAKATA	HS-FBS-500	
FGF2	Stemcell	78003.1	
Gelatin	Sigma-Aldrich	G2500-100G	
GlutaMAX	Gibco	35050061	
human IgG1 isotype control APC	BioLegend	403505	
human IgG1 isotype control FITC	BioLegend	403507	
human IgG1 isotype control PE	BioLegend	403503	
Human TGF- $\beta$ 1	Stemcell	78067	
Human TruStain FcX	BioLegend	422301	
IBMX	Beyotime Biotechnology	ST1398	
Indomethacin	Solarbio	SI9020	
Insulin	Beyotime Biotechnology	P3376	

iPSC maintenance medium	STEMCELL Technology	85850	
ITS Media Supplement	Beyotime Biotechnology	C0341-10mL	
Matrigel, growth factor reduced	BD Corning	354230	
Oli Red O staining kit	Beyotime Biotechnology	C0158S	
Proline	Solarbio	P0011	
Sodium pyruvate	ThermoFisher	11360-070	
TGFβ3	Novoprotein	CJ44	
Toluidine blue staining kit	Solarbio	G2543	
TrypLE Express Enzyme(1x)	Gibco	12604013	
Ultra-Low Attachment 6 Well Plate	Costar	3471	
Versene	Gibco	15040-66	
Y-27632	Stemcell	72304	
α-MEM	Hyclone	SH30265	
β-glycerophosphate	Solarbio	G8100	