

Materials List for

# In vitro Neuromuscular Junction Induced from Human Induced Pluripotent Stem Cells

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jove.com/video/61396

## Materials

Name	Company	Catalog Number	Comments
<b>Medium, growth factors and reagents</b>	<b>Item</b>	<b>Brand</b>	<b>Cat. Number</b>
	2-mercaptoethanol	Nacalai tesque	21418-42
	B27, Gibco	Gibco	12587-001
	BDNF	R & D Systems	248-BD
	Cell detachment solution, Accumax	STEMCELL Technologies	#07921
	Critical point dryer	Hitachi	ES-2030
	Doxycycline	Takara	631311
	ECM, Matrigel (growth factor reduced)	Corning	356230
	GDNF	R & D Systems	212-GD
	Gelation, IP gel	Geno Staff	PG20-1
	Ions coater	JEOL	JEC3000FC
	iPSC medium, mTeSR	STEMCELL Technologies	85850
	KnockOut SR (KSR)	Gibco	10828-028
	live cell microscopy	Nikon	Eclipse Ti microscope
	MEM-alpha	Gibco	12571-071
	Motion vector analysis software	Sony	SI8000
	N2, Gibco	Gibco	17502-048
	Neurobasal medium	Gibco	21103-049
	NT3	R & D Systems	267-N3
	Primate ES cell medium	ReproCell	RCHEMD001
	SEM	Hitachi	S-4700
	TEM	Hitachi	H7650
	Y27632	Wako Chemicals GmbH	253-00513
<b>Antibodies</b>	<b>Brand</b>	<b>Cat. Number</b>	<b>Dilutions</b>
	Molecular Probes	B3545	0.5 ug/ml

Islet 1	DSHB	40.2D6	1/100
Myosin heavy chain (MYH)	MilliporeSigma	A4.1025	1/300
Neurofilaments (NF)	MilliporeSigma	MAB5254	1/500
S-100	Abcam	ab14849	1/300
Synaptic vesicle protein 2 (SV2)	DSHB	SV2	1/50
Tuj1	Covance	MMS435P	1/1000