

Materials List for:

# Single-Cell Resolution Three-Dimensional Imaging of Intact Organoids

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URL: <https://www.jove.com/video/60709>

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## Materials

Name	Company	Catalog Number	Comments
1.5 ml safe-lock centrifuge tubes	Eppendorf	EP0030 120.094	
2 ml safe-lock centrifuge tubes	Eppendorf	EP0030 120.094	
Bovine Serum Albumin (BSA)	Sigma Aldrich	A3059	
Cell recovery solution	Corning	354253	
Confocal microscope	Zeiss	LSM880	
Confocal microscope software ZEN	Zeiss	ZEN black/blue	
Conical tubes 15 ml	Greiner Bio-One	5618-8271	
Coverglass #1.5 24x60mm	Menzel-Glazer	G418-15	
Coverglass #1.5 48x60mm	ProSciTech	G425-4860	
DAPI	ThermoFisher	D3571	dilution 1:1000
Dissection Stereomicroscope	Leica	M205 FA	
Double sided sticky tape 12,7 mm 6,35 m	Scotch 3M		
Dulbecco's Phosphate-buffered Saline (DPBS)	Gibco	14190144	1x
EDTA	Invitrogen	15576-028	
Focus Clear	CelExplorer	FC-101	
Fructose	Sigma Aldrich	F0127	
Glycerol	Boom	76050771.0500	
Graduated Transfer Pipets	Samco	222-15	
Horizontal shaker	VWR	444-2900	
Hydrochloric acid (HCl)	Ajax Firechem.	265.2.5L-PL	10M stock solution, corrosive
Imaris software	Bitplane		
Microscope slides Superfrost	ThermoFisher	10143352	ground edge, 90 degrees 26 mm~76 mm
Paraformaldehyde	Sigma Aldrich	P6148-500g	Hazardous
Phalloidin Alexa Fluor 647	ThermoFisher	A22287	dilution 1:100-200
E-cadherin	ThermoFisher	13-1900	dilution 1:400
Ki-67	BD Biosciences	B56	dilution 1:200
Keratin 5	BioLegend	905501	dilution 1:500
Keratin 8/18	DSHB (University of Iowa)		dilution 1:200
MRP2	Abcam	ab3373	dilution 1:50

Secondary Rat IgG (H+L) Alexa Fluor 488	ThermoFisher	A-21208	dilution 1:500
Secondary Mouse IgG (H+L) Alexa Fluor 555	ThermoFisher	A-31570	dilution 1:500
Secondary Rabbit IgG (H+L) Alexa Fluor 555	ThermoFisher	A-31572	dilution 1:500
Silicone Sealant	Griffon	S-200	
Sodium Dodecyl Sulfate	ThermoFisher	28312	
Sodium Hydroxide (NaOH) pellets	Merck Millipore	567530	10 M stock solution, corrosive
Suspension cell culture plates	Greiner Bio-One	662102	24-well
Tris	Fisher Scientific	11486631	
Triton X-100	Sigma Aldrich	T8532	Hazardous
Tween-20	Sigma Aldrich	P1379	
UltraPure Low Melting Point (LMP) Agarose	ThermoFisher	16520050	
Urea	Sigma Aldrich	51456	
Workstation	Dell		