

Materials List for:

Visualization and Quantitative Analysis of Embryonic Angiogenesis in *Xenopus tropicalis*

Jiyeon Ohk¹, Hosung Jung^{1,2}

¹Brain Korea 21 PLUS Project for Medical Science, Yonsei University College of Medicine

²Department of Anatomy, Brain Research Institute, Yonsei University College of Medicine

Correspondence to: Hosung Jung at hosungjung@yonsei.ac.kr

URL: <https://www.jove.com/video/55652>

DOI: [doi:10.3791/55652](https://doi.org/10.3791/55652)

Materials

Name	Company	Catalog Number	Comments
35 mm Petri dish	SPL	10035	Sylgard mold frame
60 mm Petri dish	SPL	10060	Embryo raising tray
Borosilicate Glass	Sutter instrument	B100-50-10	Needle for injection
BSA	Sigma	A3059-10G	Coating reagent
CaCl ₂	D.S.P.GR Reagent		0.1x MBS component
Coverslip	Superior	HSU-0111520	For confocal imaging
Dil-AcLDL	Thermo Fisher Scientific	L3484	Vessel staining solution
FBS	Hyclone	SH.30919.02	For storage of testis
Fiber Optical Illuminator	World Precision Instruments	Z-LITE-Z	Light
Ficoll	Sigma	F4375	Injection buffer
Flaming/Brown Micropipette Puller	Sutter instrument	P-97	Injection needle puller
Forcep	Fine Science Tool	11255-20	For embryo hatching and needle tip cutting
Glass Bottom dish	SPL	100350	For confocal imaging
hCG	MNS Korea		For priming of frogs
HEPES	Sigma	H3375	Buffering agent
Incubator	Lab. Companion	ILP-02	For raising embryos
KCI	DAEJUNG	6566-4400	MBS component
L15 medium	Gibco	11415-114	For storage of testis
L-cysteine	Sigma	168149-100G	De-jellying reagent
MgSO ₄	Sigma	M7506	MBS component
Microtube	Axygen	MCT-175-C-S	For storage of testis
MS222	Sigma	E10521	Anesthetic powder
NaCl	DAEJUNG	7647-14-5	MBS component
NaOH	Sigma	S-0899	pH adjusting reagent
Paraformaldehyde	Sigma	P6148	Fixatives
PBS	BIOSESANG	P2007	Buffer for imaging
pH paper	Sigma	P4536-100EA	For confirming pH
PICO-LITER INJECTOR	Waner instruments	PLI-100A	For injection
Pin	Pinservice	26002-10	For incision
Pinholder	Scitech Korea	26016-12	For incision
Precision Stereo Zoom Binocular Microscope	World Precision Instruments	PZMIII	For visual screening

Standard Manual Control Micromanipulator	Waner instruments	W4 64-0056	For microinjection
SYLGARD 184 Kit	Dow Corning		For Dil injection
Transfer pipette	Korea Ace Scientific Co.	YM.B78-400	For eggs and embryo collection