

Materials List for:

3D Analysis of Multi-cellular Responses to Chemoattractant Gradients

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Materials

Name	Company	Catalog Number	Comments
22mm x 22mm coverslip	Fisher Scientific	12-542-B	
Collagen I, Rat	Fisher Scientific	CB-40236	
Collagenase	Sigma-Aldrich	C5138	
COMSOL Multiphysics 4.2	COMSOL Inc		Used for simulating diffusion dynamics
10x DMEM	Sigma-Aldrich	D2429	
DEME/F12	Thermo Fisher	11330032	
DNase	Sigma-Aldrich	D4623	
EGF Recombinant Mouse Protein	Thermo Fisher	PMG8041	
Fetal Bovine Serum (FBS)	Life technologies	16140-071	
Fiji-ImageJ			Used for measuring branching length and angles
Gentamicin	GIBCO	5750-060	
IMARIS	Bitplane		
Insulin	Sigma-Aldrich	19278	
Insulin-Transferrin-Selenium-X	GIBCO	51500	
Low-lint tissue	Kimberly-Clark Professional	Kimtech wipe	
Mold Material	Proto labs	Accura SL5530	
Mold printing equipment	Proto labs	Stereolithography	Maximum dimension: 127mm x 127mm x 63.5mm, Layer thickness: 0.0254mm
Mold printing Service	Proto labs	Custom	https://www.protolabs.com/
NaOH	Sigma-Aldrich	S2770	
Penicillin/Streptomycin	VWR	16777-164P	
Spinning-disk confocal microscope	Solamere Technology Group		
Sylgard 184	Electron Microscopy Sciences	184 SIL ELAST KIT	PDMS kit
Trypsin	Sigma-Aldrich	T9935	