

Materials List for:

Flat Mount Imaging of Mouse Skin and Its Application to the Analysis of Hair Follicle Patterning and Sensory Axon Morphology

Hao Chang¹, Yanshu Wang¹, Hao Wu¹, Jeremy Nathans^{1,2,3}

¹Department of Molecular Biology and Genetics, Howard Hughes Medical Institute, Johns Hopkins University School of Medicine

²Department of Neuroscience, Howard Hughes Medical Institute, Johns Hopkins University School of Medicine

³Department of Ophthalmology, Howard Hughes Medical Institute, Johns Hopkins University School of Medicine

Correspondence to: Hao Chang at haochang@jhmi.edu, Jeremy Nathans at jnathans@jhmi.edu

URL: <https://www.jove.com/video/51749>

DOI: [doi:10.3791/51749](https://doi.org/10.3791/51749)

Materials

Name	Company	Catalog Number	Comments
5-bromo-4-chloro-indolyl phosphate (BCIP)	Roche	11383221001	
AM1-43	Biotium	70024	
AM4-65	Biotium	70039	
Benzyl alcohol	Sigma	402834	
Benzyl benzoate	Sigma	B-6630	
Confocal microscope	Zeiss	LSM700	
Cy3-alpha smooth muscle actin antibody	Sigma	C6198	1:400
Cytokeratin-8	Developmental Studies Hybridoma Bank	TROMA-I-c	1:500
Dissecting microscope			
Dissection tools	Fine Science Tools		scissors and forceps
Electric razor			
Fluoromount G	EM Sciences	17984-25	
Formalin	Sigma	HT501320	
Glass dishes	Pyrex		6 cm and 10 cm diameter
Glass plates	Amersham Biosciences	SE202P-10	10 cm x 8 cm x 1 mm
Hair remover	Nair		
Horizontal rotating platform	Hoefer	PR250 Orbital shaker	
Insect pins	Fine Science Tools	26002-20	
Ketamine/xylazine	Sigma	K113	
Nitroblue tetrazolium (NBT)	Roche	11383213001	
Oil Red O	Sigma	O0625	
Paraformaldehyde	Sigma	P6148	
Razor Blades	VWR	55411-055	
Secondary antibodies	Invitrogen		Alexa-dye conjugated
Sylgard-184	Fisher Scientific	NC9020938	
Tissue culture plastic dishes			10 cm diameter
Tissue culture plates			6- and 12-well