

Materials List for:

Large-scale Scanning Transmission Electron Microscopy (Nanotomy) of Healthy and Injured Zebrafish Brain

Jeroen Kuipers¹, Ruby D. Kalicharan¹, Anouk H. G. Wolters¹, Tjakko J. van Ham², Ben N.G. Giepmans^{*1}

¹Cell Biology, UMC Groningen

²Clinical Genetics, Erasmus MC Rotterdam

*These authors contributed equally

Correspondence to: Ben N.G. Giepmans at B.N.G.giepmans@umcg.nl

URL: <https://www.jove.com/video/53635>

DOI: [doi:10.3791/53635](https://doi.org/10.3791/53635)

Materials

Name	Company	Catalog Number	Comments
Chemicals			
low melting point agarose	VWR	444152G	
tricaine	Sigma	E10521	
triton-X-100	Sigma	X100	
glutaraldehyde	Polysciences	1909	
sodium cacodylate	Sigma	C0250	
osmium tetroxide	Electron Microscopy Sciences	19114	
potassium ferrocyanide (K ₄ [Fe(CN) ₆])	Merck	4984	
ethanol	VWR	20821.365	
uranyl acetate	Merck	8473	
sodium tetraborate	Merck	1063808	
toluidene blue	Merck	1273	
basic fuchsin	BDH	340324	
lead citrate	BDH	discontinued	
EPON			
2-dodecenylsuccinicacid anhydride	Serva	20755	
methylnadic anhydride	Serva	29452	
glycid ether 100	Serva	21045	
DMP-30	Polysciences	553	
standard flat embedding mold	Electron Microscopy Sciences	70901	
diamond knife	Diatome Inc.		
copper grids	Electron Microscopy Sciences		
double sided carbon tape	Electron Microscopy Sciences		
scanning EM Zeiss Supra55	Zeiss		
ultramicrotome Leica EM UC7	Leica		
atlas external scan generator	Fibics		