

Materials List for

A 3D Cartographic Description of the Cell by Cryo Soft X-ray Tomography

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Materials

Name	Company	Catalog Number	Comments
Amira	Thermo Fisher		Software for segmentation
Au Holey Carbon Films finder grids	(Quantifoil Micro Tools Gmb	R 2/2 Au G200F1	Au Holey Carbon Films finder grids
Au nanoparticles	BBI Group, Cardiff, UK	Au nanoparticles 100nm	100 nm Au nanoparticles (NPs) at Mistral (Alba)
Au nanoparticles	BBI Group, Cardiff, UK	Au nanoparticles 250nm	250 nm Au nanoparticles (NPs) at B24 (Diamond)
Axio Scope A1	Zeiss	430035 9060	Fluorescence microscope
Blotting No.1 filter paper	Whatman	WHA10010155	Blotting filter
Bsoft			Software for projection alignment, reconstruction and visualization (Heymann et al., 2008)
Chimera			Software for segmentation (Pettersen et al. 2004)
Cryo-EM Glow Discharge Set	PELCO easiGlow	91000S	Glow Discharge Cleaning System
Cu Holey Carbon Films finder grids	(Quantifoil Micro Tools Gmb	R 2/2Cu G200F1	Cu Holey Carbon Films finder grids
Fetal calf serum	Sigma	F9665	Heat Inactivated, sterile-filtered, suitable for cell culture
ImageJ			Software for image processing and analysis in Java (NIH & LOCI University of Wisconsin)
IMOD			Software for projection alignment, reconstruction and visualization (Kremer et al., 1996)
Leica EM GP Grid Plunger	Leica	16706401	Automatic Plunge Freezer EM
LINKAM cryo-stage	Linkam Scientific Instruments	CMS 196	Cryo-Correlative Microscopy Stage
MIB			Software for segmentation (Belevich et al. 2016)
P100 Petri dish	Sigma	P6106	Treated for cell culture and sterile
P60 Petri dish	Sigma	D8054	Treated for cell culture and sterile
Polylysine	Sigma	P4707	Poly-L-lysine solution 0.01%, sterile-filtered
Soft X-Ray microscope 0.25-1.2keV	Xradia	NCT-SB	Transmission soft X-Ray microscope
SURVOS			Software for segmentation (Luengo et al. 2017)
Tomo3d			Software for reconstruction (SIRT, WBP) (Aguilleiro et al. 2011)

TomoJ			Software for reconstruction (ART) (Messaoudi et al., 2007)
XM Data Explorer	Zeiss		TXM software