

Materials List for:

Determination of Molecular Structures of HIV Envelope Glycoproteins using Cryo-Electron Tomography and Automated Sub-tomogram Averaging

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Materials

Name	Company	Catalog Number	Comments
Multi-A Holey Carbon Grids	Quantifoil Micro Tools	-	200 mesh
Protein A gold colloid	University of Utrech - The Netherlands	-	10 nm diameter
HIV-1 BaL	National Institutes of Health	-	~ 10 ¹¹ virions/mL
Cryo-EM storage box	Pacific Grid Tech	GB-4R	4-hole, round
Vitrobot Mark III	FEI	-	6 second blot time, -2 mm offset, 100% humidity
Tecnai G2 Polara transmission electron microscope	FEI	-	200 keV
Gatan Imaging Filter	Gatan	-	-
Gatan Post-GIF CCD	Gatan	-	2K x 2K pixels
Gatan Cryo Workstation	Gatan	-	-
Gatan Solarus 950 Plasma Cleaning System	Gatan	-	Oxygen and Hydrogen plasmas
C - clips	FEI	ZIT0634	-
Biowulf computing cluster	National Institutes of Health	-	http://biowulf.nih.gov/
UCSF Chimera	University of California - San Francisco	-	http://www.cgl.ucsf.edu/chimera/
IMOD	University of Colorado - Boulder	-	http://bio3d.colorado.edu/imod/
EMAN	Baylor College of Medicine	-	http://blake.bcm.tmc.edu/eman/
RAPTOR	Stanford University	-	http://www-vlsi.stanford.edu/TEM/index.htm