

Materials List for

# Array Tomography Workflow for the Targeted Acquisition of Volume Information using Scanning Electron Microscopy

Tilman Franke<sup>1</sup>, Irina Kolotuev<sup>2</sup>

<sup>1</sup>Thermo Fisher <sup>2</sup>Universite de Lausanne

## Corresponding Author

Irina Kolotuev

irina.kolotueva@unil.ch

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jove.com/video/61847

## Materials

Name	Company	Catalog Number	Comments
<b>Cutting</b>			
AT sectioning knife	Diatome	DUATS3530	Diatome Jumbo knife
Diamond knife for trimming 90°	Diatome	DTB90	Diatome trimming 20° Glass knife
Pattex contact adhesive	Pattex	PCL3C	
Silicon wafer	Ted Pella	16015	Resistance: 1-30 Ohms Type P: (Boron) (1 primary flat) Roughness: 2 nm No SiO <sub>2</sub> top coating TTV: = <20 μm Wafer is polished on one side
Ultramicrotome	Leica UC6		Alternative: Leica UC7
Wafer cleaving kit	EMS	7642	EMF, Small Sample Cleaver, CatNo. 7652
<b>Image acquisition</b>			
FESEM	Thermo Fischer Helios	1072419	Alternatives: Zeiss, Jeol, Hitachi, TESCAN
Maps 3 for SEM with Correlative Workflow & Array Tomography	Thermo Fisher Scientific	1135932	Maps provides automation of SEM imaging workflows and allows importing of 3rd party data for CLEM and navigation.
<b>Image analysis</b>			
Amira x.y	Thermo Fisher Scientific	1131599	Amira is a 3D data visualization and analysis software with several practical functions for Array Tomography data reconstruction.
Image processing	Open source	Fiji ( <a href="http://fiji.sc/#download">http://fiji.sc/#download</a> )	IMOD, MIB (See text for references)