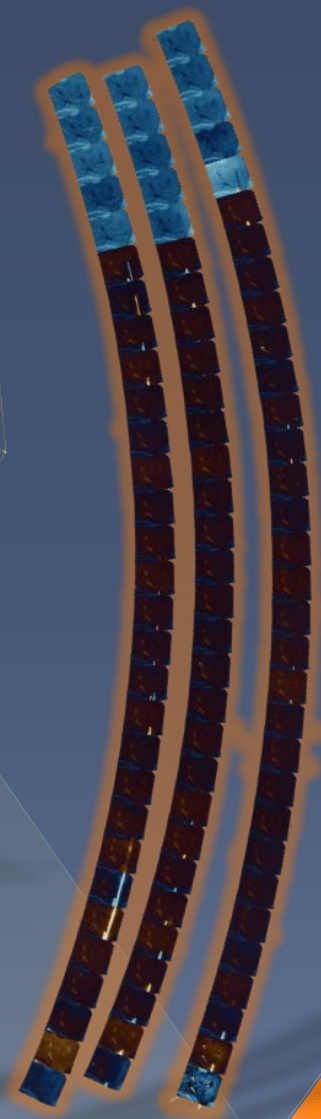
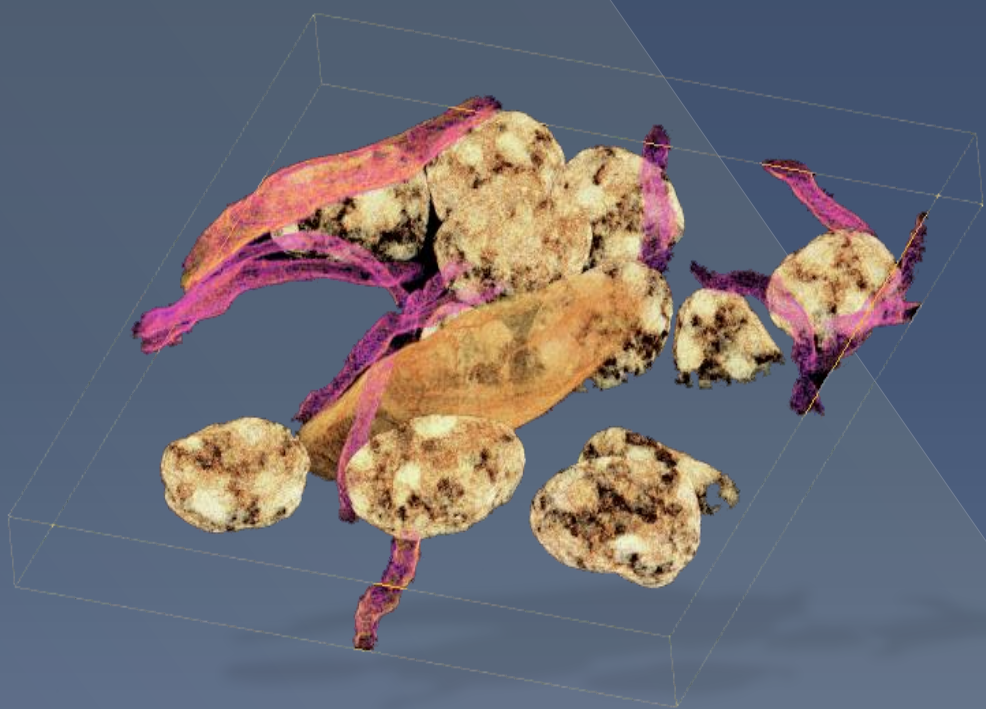




ARRAY TOMOGRAPHY

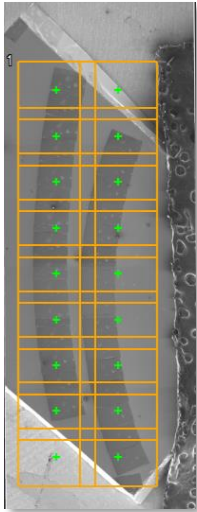


TEMography
.com

SEM Supporter

Recording

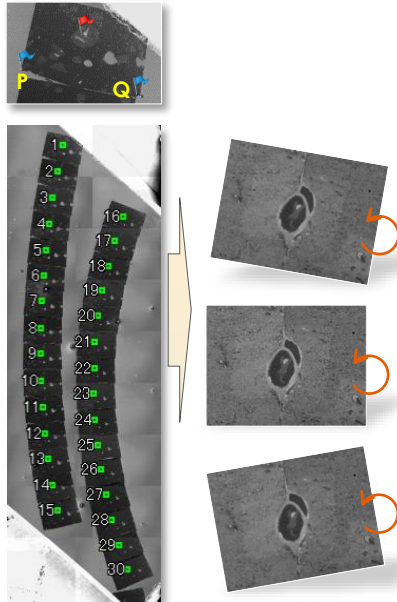
Step 1



Wide area

Collect a montage of the entire sample.

Step 2

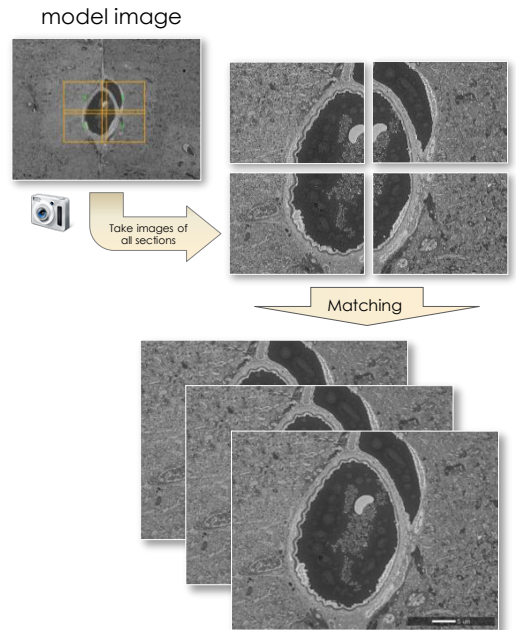


Sections at low magnification

Take images for each section with the same orientation using individual alignment points.

SEMography Recorder

Step 3



Cell at high magnification

Take images for the region of interest with the same orientation as the model image with auto scan rotation.

By courtesy of JEOL Ltd.

CLEM

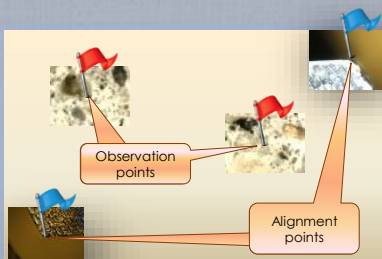
Correlative Light Electron Microscopy

Link coordinates from OM image for navigation in the SEM with simple P-Q alignment.

Digital Camera



OM



Output

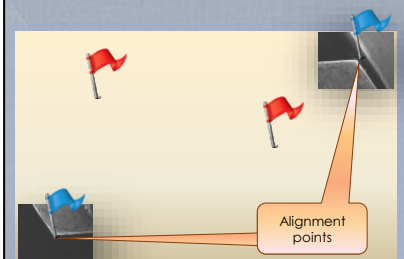


Images with observation conditions

Import



SEM



Move the stage position to the observation points after setting the alignment.

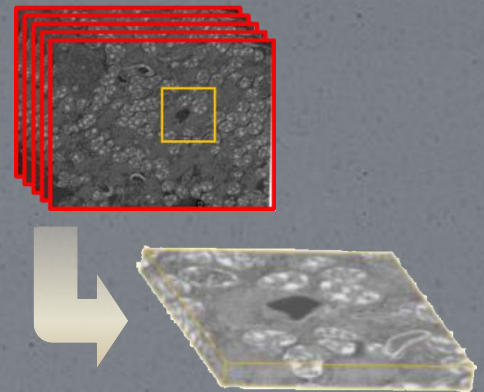
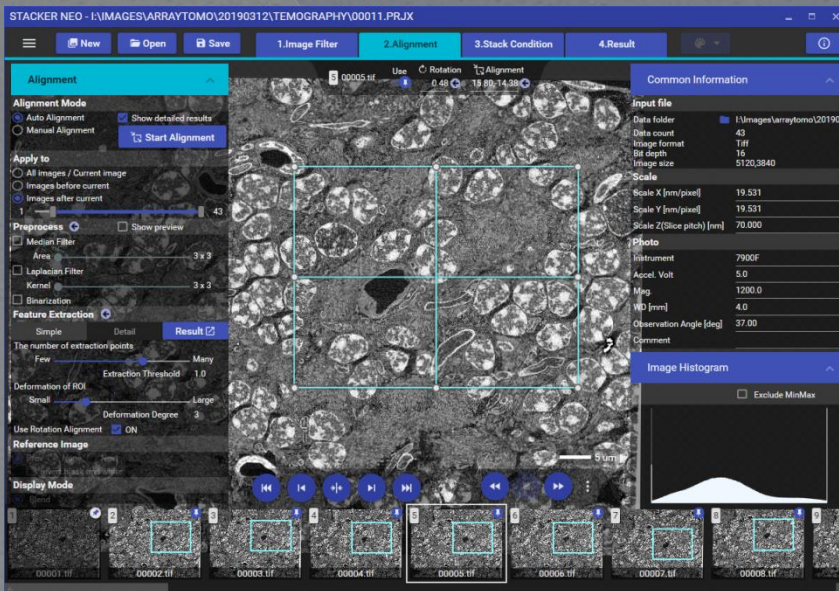
By courtesy of JEOL Ltd.

Stack N Viz

3D Reconstruction

StackerNEO

StackerNEO is the application software that reconstructs the sliced images systematically obtained.



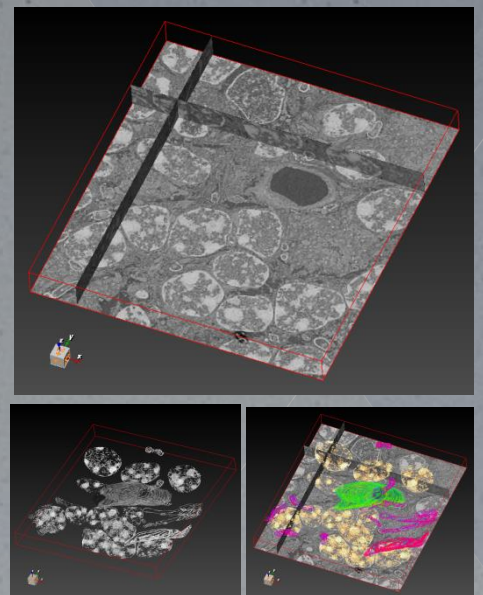
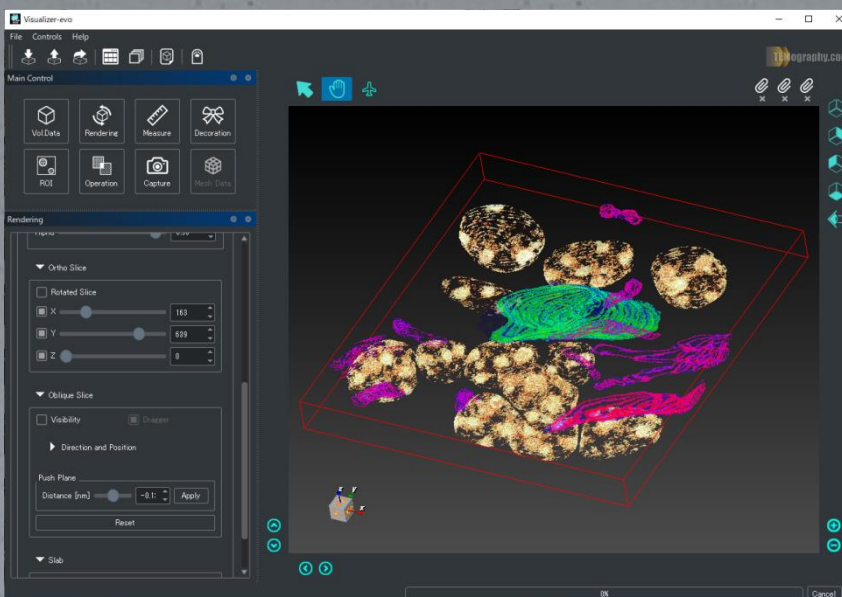
In Array Tomography, the observation target can slightly rotate. StackerNEO corrects this rotation and aligns based on a feature matching algorithm.

By courtesy of JEOL Ltd.

3D Visualization

Visualizer-evo

The Visualizer-evo includes volume rendering, multi-slicing, isosurface plotting, volume segmentation, and movie maker tools with a variety of 3D volume representation and 3D measurement options (length, angle, etc.).



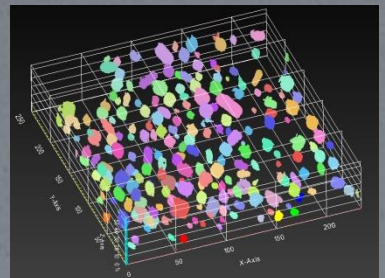
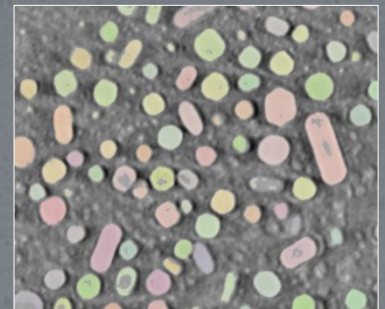
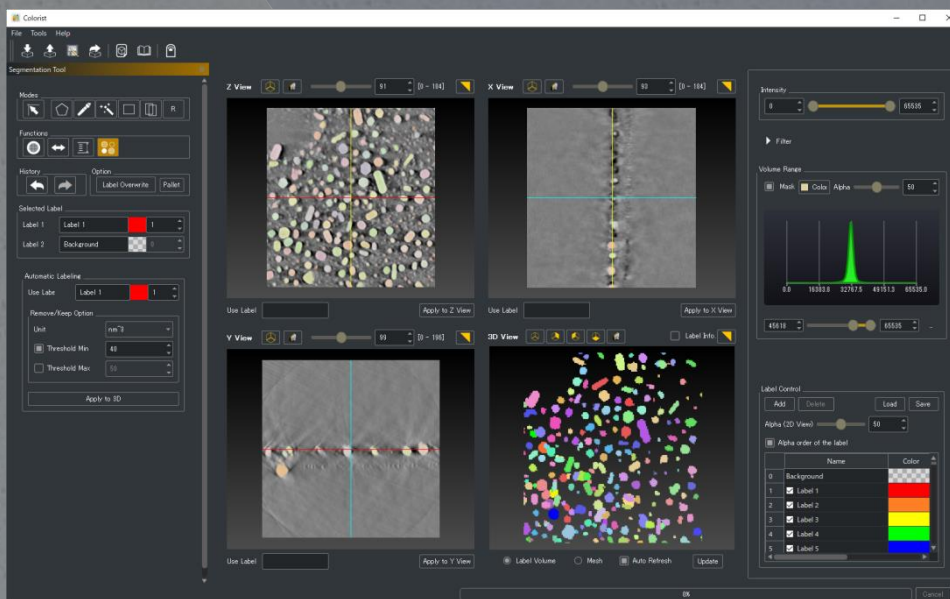
By courtesy of JEOL Ltd.

Colorist

Segmentation

Region of Interest Extraction Software

Colorist allows selection and colorization of multiple regions of interest to form 3D volume images with the intuitive user interface.



Segmentation refers to a function that extracts arbitrary regions of interest (organization and structure) from Volume data.

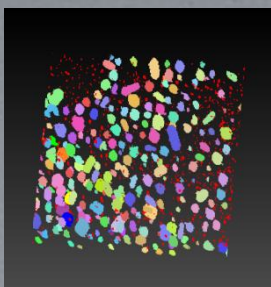
Difference with Visualizer-evo

A volume segmentation function is included in Visualizer-evo, which is suitable for extracting single defined features very quickly. Colorist makes it possible to extract multiple independent regions of interest and ideal for volumes containing many different features.

By courtesy of JEOL Ltd.

Volume Calculation

The measurement result is calculated for each volume



The screenshot shows the 'Label Information' window with a table of calculated parameters for each label. The table includes columns for Label, Color, Num of Voxel, Num of Voxel (On Border), Volume, Average Intensity, Roundness, Spherical Radius, Flatness, Elongation, Perimeter, and Feret Diameter.

Label	Color	Num of Voxel	Num of Voxel (On Border)	Volume	Average Intensity	Roundness	Spherical Radius	Flatness	Elongation	Perimeter	Feret Diameter
1	Red	2623	0	5347.56	-	-	-	-	-	-	-
2	Orange	1021	0	2081.53	53551.3	0.8512	7.92073	1.15371	1.37414	926.208	25.7063
3	Yellow	705	0	1437.3	55671.3	0.887181	7.00088	1.16908	1.44064	694.23	21.9258
4	Green	269	0	548.416	52212.6	0.866787	5.07778	1.40194	1.58535	373.805	16.0891
5	Blue	1018	0	2075.42	54963.9	0.939376	7.91296	1.08738	1.34475	837.623	20.4065
6	Purple	923	0	1881.74	52108	0.933943	7.65873	1.29201	1.17741	789.23	18.8502
7	Pink	226	72	460.751	50267.6	0.827648	4.79136	1.87773	1.44797	348.564	15.4779
8	Cyan	833	0	1698.25	50884.8	0.882974	7.40124	1.09291	1.21431	779.599	17.752

By courtesy of JEOL Ltd.

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