

# Overview of Visualization Possibilities with Microscopy Image Browser

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Dataset: Huh7.tif (original), obtained by Serial Block Face-SEM (Gatan 3View)  
Huh7\_crop.tif (cropped)  
Dimensions: 32.58 x 32.58 x 2.22  $\mu\text{m}$  (original)  
7.01 x 4.99 x 2.22  $\mu\text{m}$  (cropped)  
Pixel size: 13.45 x 13.45 x 30 nm

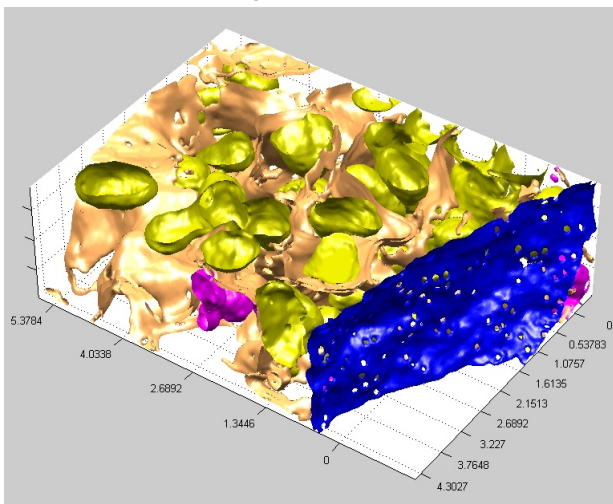
Link to the dataset: [http://mib.helsinki.fi/tutorials/3D\\_Modeling\\_files/Huh7.tif](http://mib.helsinki.fi/tutorials/3D_Modeling_files/Huh7.tif)

Link to the model:

[http://mib.helsinki.fi/tutorials/3D\\_Modeling\\_files/Model.mat](http://mib.helsinki.fi/tutorials/3D_Modeling_files/Model.mat)

## 1. Visualization with Matlab:

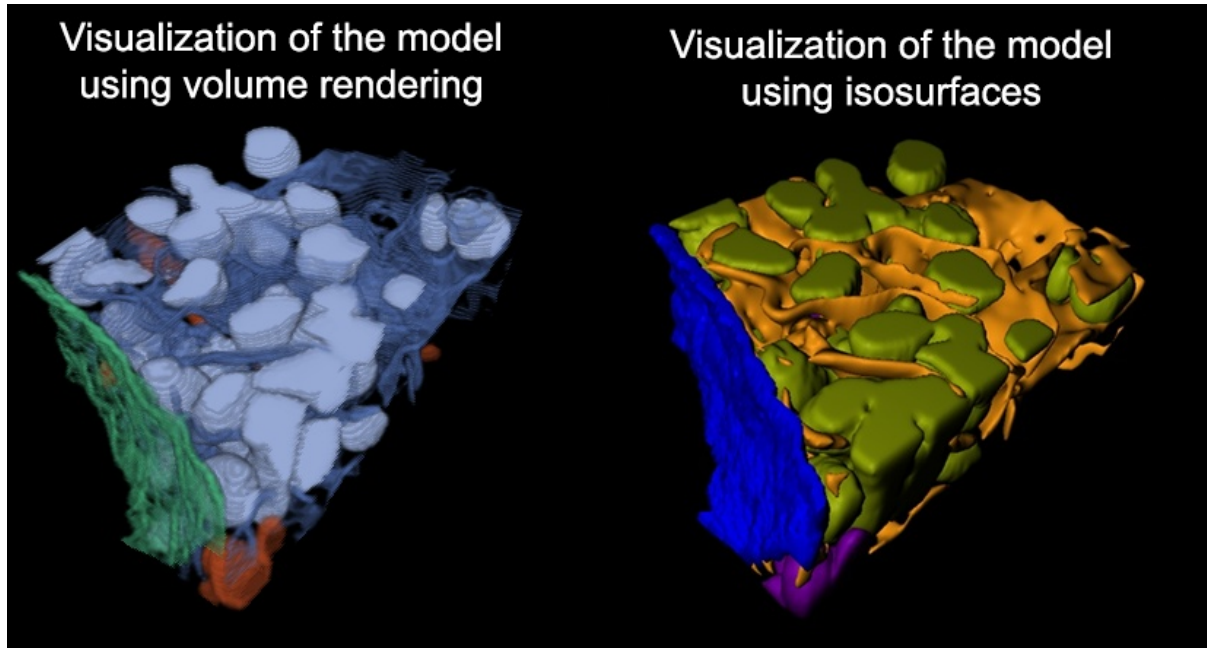
- Select *Segmentation Panel->Materials->Show all* to visualize all materials of the model, or uncheck this checkbox and select material that has to be visualized in the list below the checkbox.
- press the right mouse button to call a popup menu,
- select '*Show isosurface (Matlab)...*'
- in a dialog enter simplification parameters and press OK.



## 2. Visualization with Fiji. The models can also be visualized with Fiji/ImageJ 3D viewer. In brief:

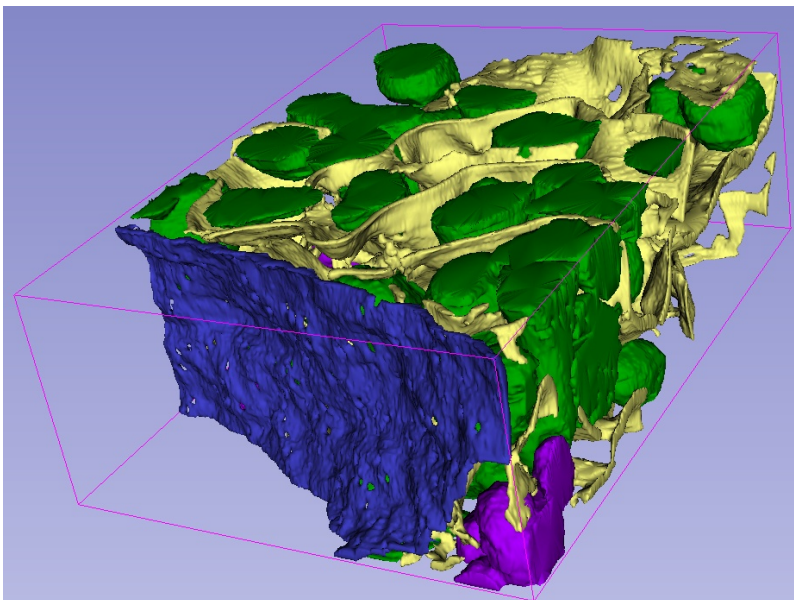
- Select *Segmentation Panel->Materials->Show all* to visualize all materials of the model, or uncheck this checkbox and select material that has to be visualized in the list below the checkbox.
- press the right mouse button to call a popup menu,

- select 'Show as Volume (Fiji)'; requires Fiji to be installed.
- in a dialog enter simplification parameter and press OK.



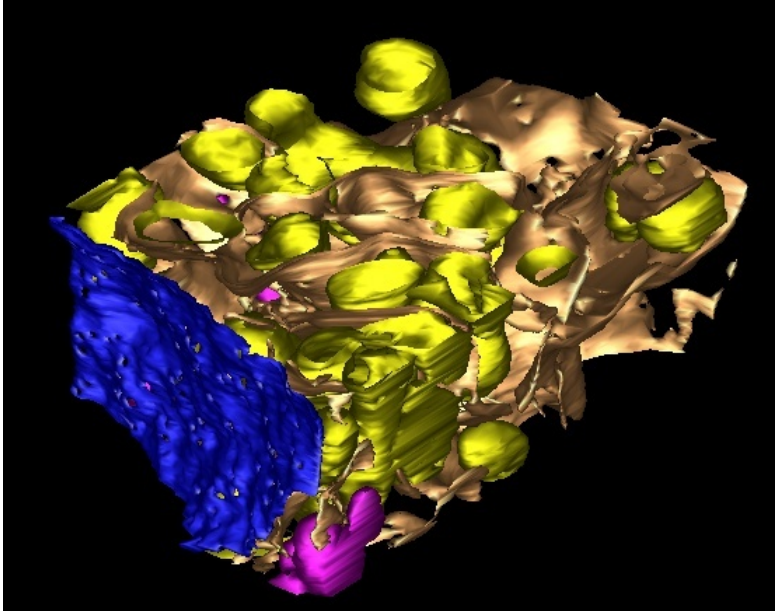
3. Visualization with [Slicer 3D](#).

[A video tutorial on youtube.com](#)



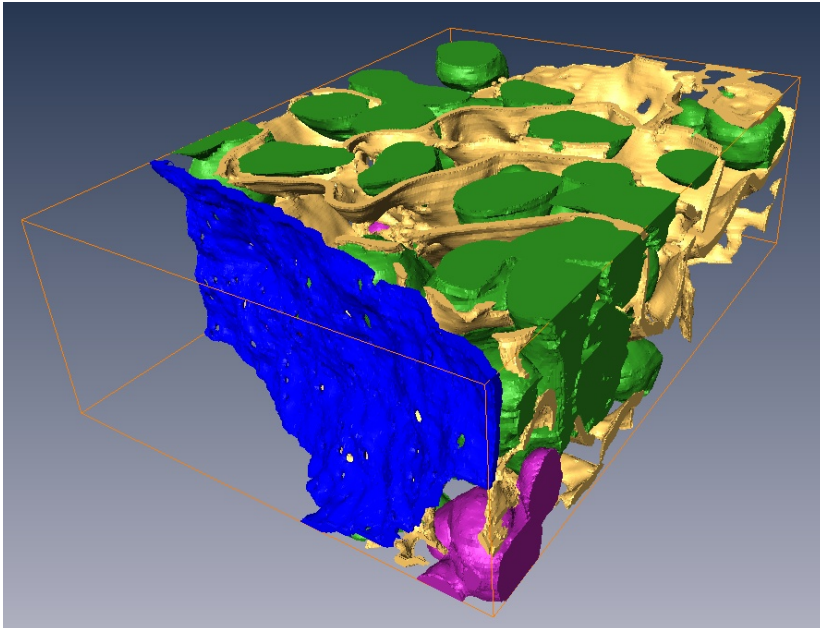
4. Visualization with IMOD.

Please refer to [Export to IMOD](#) tutorial for details



5. Visualization with [Amira](#) (Visualization Sciences Group, FEI Company).

Shown in brief in the [MIB: Image Segmentation tutorial 8: fixing mitochondria and final visualization tutorial](#).



6. Visualization with Imaris (Bitplane, Oxford Instruments).

Please refer to *Render in Imaris* ([html](#), [pdf](#), youtube ([part 1](#)), youtube ([part2](#))) tutorials for details

