

3D-SEM Volume Electron Imaging

User application form:

Zeiss Gemini serial block face (SBF) and Crossbeam Focused ion beam (FIB) scanning electron microscopes are state of the art SEMs to acquire high resolution 3D images and volume modeling of ultrastructure in biological specimen. The samples must first be screened by conventional TEM at NBI facility to confirm the quality of specimen preparation.

Please note, by using the SEMs and TEMs you agree to acknowledge “the Sickkids 3D-EM Nanoscale biomedical imaging facility, supported by the Canada Foundation for Innovation and Ontario Research Fund” (verbatim to allow tracking).

Please provide the following information:

Section A

User name:

Principal investigator's name:

Institution:

☐ Sickkids ☐ Mount Sinai ☐ Other (please specify below)

Section B

Identify the type of your research

- ☐ Cell culture
☐ Animal tissue
☐ Human specimen

Please describe your project and your intent for 3D imaging (why do you need volume imaging).

Please describe if you have previously done TEM imaging (screening) of your samples.

How many samples do you have and what is the extent of your research (please provide timeline)?

Do you need NBI to develop sample preparation protocol for you?

☐ Yes

☐ No, I have my own protocol (attach to the form)