

Specification & Optical Configuration

Zeiss LSM800 Confocal Microscope with Airyscan

What is it?

The Zeiss LSM800 is an inverted laser-scanning microscope equipped with Airyscan, allowing for super-resolution imaging. The Experiment Designer feature allows for multidimensional acquisition of data with individual settings for each component of the experiment. The tiling and positioning feature can create a low magnification image preview for easier locating of samples at higher magnifications, as well as use reference points to retain focus on large tiles of uneven samples. Definite Focus is also present to prevent focus drift and keep samples in focus.

Where is it?

Pavilion E, Room-412

Objective

Plan Plan-Neofluar / 10x, Air / 0.30 NA

Plan-Apochromat / 20x, Air / 0.80 NA

Plan-Apochromat / 40x, Oil / 1.40 NA

Plan-Apochromat / 63x, Oil / 1.40 NA

Detectors:

Three GaAsP PMTs, one of which is configured for Airyscan

Laser/ Filter

Four lasers at 405nm, 488nm, 561nm, and 640nm are present, with a variable secondary dichroic allowing for imaging of any emission wavelength between 410-700nm.

