

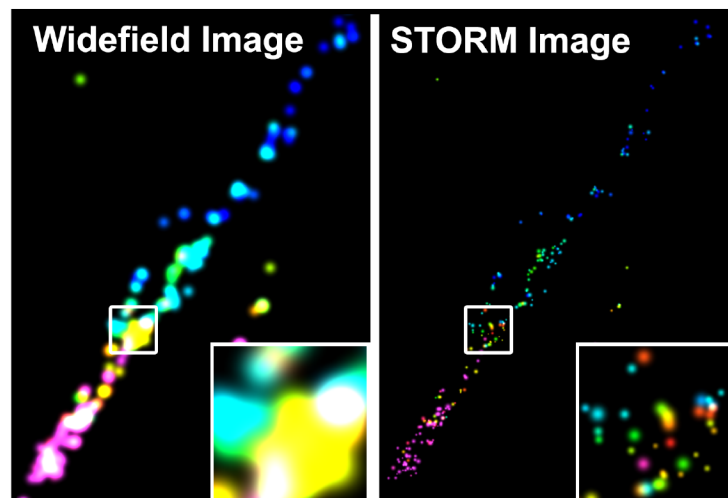
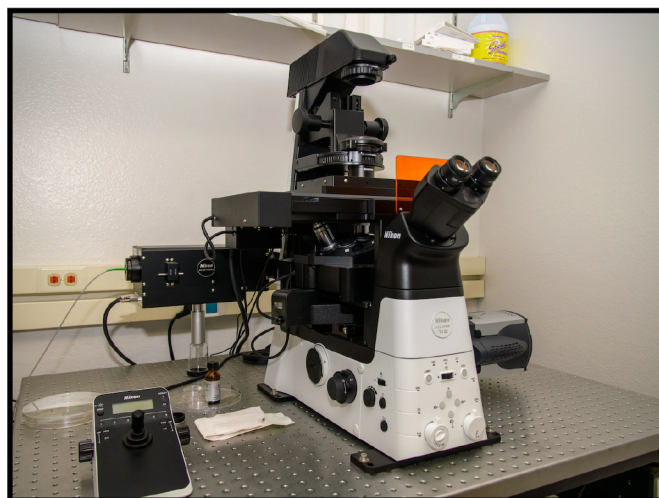
Nikon N-STORM Super Resolution Microscope



THE UNIVERSITY OF ARIZONA
Cancer Center



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Instrument Description

The Nikon “Storm” system is an N-STORM super resolution microscope, capable of achieving 20nm XY and 50nm Z resolution - **10X increase in resolution over a traditional fluorescence microscope**. Stochastic Optical Reconstruction Microscopy (STORM) is our most advanced imaging modality offered at the MSR and is ideal for experimental questions requiring nanoscale resolution. This instrument is capable of acquiring **up to 3 fluorescence channels** and has the optics to acquire 3D STORM images. Due to the advanced nature of STORM imaging, the MSR offers an **Assisted STORM Imaging Service** to assist users with no background in STORM. This service includes the preparation of MSR supplied STORM buffers and MSR staff performing the STORM imaging with user guidance.

Instrument Features

- Super resolution imaging (20nm XY and 50nm Z resolution)
- Optics to acquire up to 3 fluorescence channels (488nm / 561nm / 640nm)
- 3D STORM imaging (with astigmatism lens)
- Photoactivated Localization Microscopy (PALM) imaging for samples with photoconvertible fluorescent proteins

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Instrument Details

<p>Available Lasers</p>	<p>405nm / 488nm / 561nm at 100mW 640 nm at 125mW</p>
<p>Available Objective Lenses</p>	<p>20x Plan Apo (NA = 0.75; WD = 1mm; DIC) 100x Oil SR Plan Apo (NA = 1.49; WD = 120µm; DIC)</p>
<p>Available Camera</p>	<p>Andor iXon Ultra 897</p> <ul style="list-style-type: none"> - Back-illuminated EMCCD sensor - Pixel size = 16µm - Sensor Size = 512 x 512
<p>Emission Filters</p>	<p>DAPI - 455nm / 50nm GFP - 525nm / 36nm Cy3 - 605nm / 52nm Cy5 - 705nm / 72nm</p>
<p>Supported Samples</p>	<p>IMPORTANT: Samples must in the format below</p> <p>Glass-bottom Dishes (35mm) with No. 1.5 coverslips Recommended No. 1.5H coverslips Mattek P35G-0.170-14-C</p> <p>Unmounted samples only (store in 1x PBS)</p>