

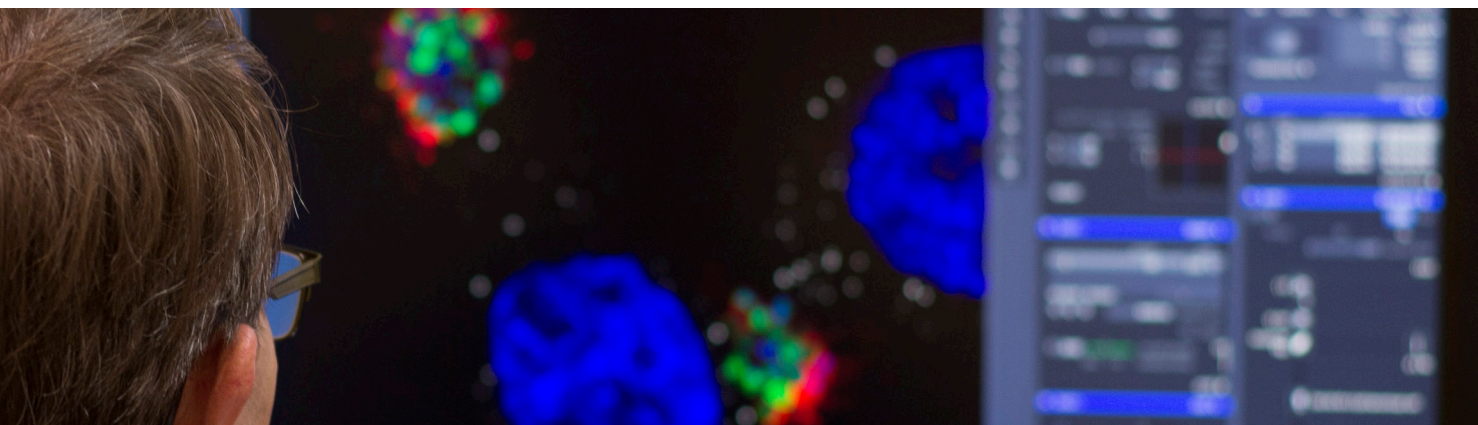
*Imaging Cores,
Life Sciences North – Optical
& Electron Microscopy*



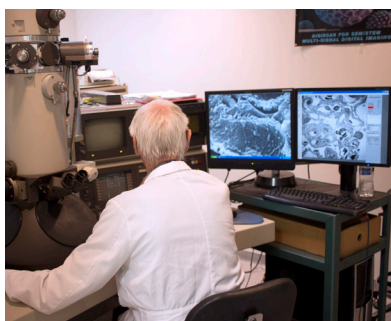
Core Facilities Fair 2017

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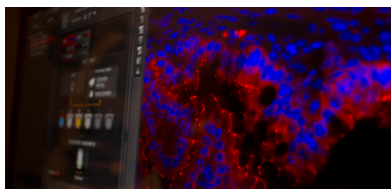


Imaging Cores, Life Sciences North – Optical @ Electron Microscopy



Imaging Cores, Life Sciences North - Optical & Electron Microscopy, or IC LSN, are shared by Research, Discovery & Innovation and Arizona Research Laboratories. The IC LSN provide high-tech, high-resolution microscope tools to the UA biomedical research community, as well as industry partners. These tools, supported by staff with decades of experience, enable researchers to discover new information about the inter-relationships of structure and function in cells, tissues, and other samples.

These Imaging Cores are the only biological transmission electron microscopy, or TEM, facilities on the UA campus. TEM provides the ability to observe cellular organelles at single nanometer resolutions. The staff in the TEM facility have over 50 years of combined experience.



The IC LSN have recently added the highest-resolution core facility fluorescence optical microscope on campus. This super-resolution instrument can capture images of four different fluorescent labels at resolutions in the 110-140 nanometer range. This unique instrument is allowing users to discover a new level of detail in their samples. The optical microscopy manager has more than three decades of experience in high-end microscopy.

For more routine optical microscopy needs, such as publication images, the Imaging Cores has an easy to use, fully motorized inverted microscope for four-color fluorescence imaging, as well as the ability to capture brightfield color images and DIC/polarized light images. The motorized stage allows for stitching together of many fields of view into a large area montage image.

Currently, the facility includes two transmission electron microscopes with digital image capture (Phillips CM-12, 1988; FEI Tecnai Spirit, 2012), a super-resolution fluorescence microscope (Zeiss Elyra S.1, 2016), and a motorized wide-field optical microscope for brightfield and fluorescence microscopy with two cameras (Leica DMI6000, 2013).



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