Learning objectives for the LCI training for Theia and Iris

During the LCI training, we provide teaching as well as scientific advice.

A. Scientific advice

☐ Look-Up Tables

We discuss with you how to adapt your sample preparation and experiment goals to minimize sample to sample variability and ensure extraction of reliable data.

B. Training

At the end of the training, you should be able to independently perform the following actions:

1.	Operate the equipment.
	the equipment on/off according to the recommended procedure that leaves the equipment whole area clean.
	nt and find your sample according to the recommended procedure that is safe for the sample equipment.
☐ Trans	fer the data according to the recommended safe procedure.
	the Material and Method section for your imaging experiment to enable reproducibility by searchers.
	Identify and eliminate typical microscopy artifacts: bleedthrough, saturation, undersampling.
	is the efficiency of imaging and the potential for bleedthrough for the fluorophores in the when using the microscope selected for the training.
	ify saturation/underexposure in acquired images, explain the consequence of both and how to eliminate these artifacts.
	se appropriate optical and digital resolutions to minimize undersampling artifacts and be able bly answer your scientific question. ☐ Objective ☐ Binning
3.	Adapt the imaging parameters to ensure extraction of reliable data.
	se appropriate acquisition parameters to optimize acquisition speed and signal to noise ratio le to reliably answer your scientific question. ☐ Illumination power ☐ Exposure time ☐ Gain