

INSTITUTO DE MEDICINA MOLECULAR JOÃO LOBO ANTUNES
TRAINING CONTENT FOR AMNIS IMAGESTREAM X

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- Have a meeting with the user previously to discuss the experiment and sample preparation
- Brief introduction to the Amnis ImageStream, and how it combines two powerful techniques
- Components of the Amnis ImageStream:
 - Fluidics (show the beads, cleaning reagents, sheath and waste, flow cell)
 - Optics (show lasers, objectives, equipment configurations)
 - Electronics (show the two computers)
- How to switch on the instrument, introduce ISX and startup with ASSIST
- Setting up an Experiment:
 - Explain the ISX workspace
 - Image gallery
 - Sample menu to Load and Return. Show the volume on the tube and time of acquisition
 - File acquisition to control acquisition, number of events recorded and file destination.
 - Illumination to adjust laser settings
 - Display Settings – explain histogram and Full Scale option, and how it is important to adjust the signal intensity in this menu before adjusting laser power to avoid saturation
 - Fluidics to control flow rate – maintain at Low Speed, High Sensitivity
 - Magnification & EDF – choose objective, explain EDF and High Gain
 - Creating scatter plots, regions, statistics
 - Load single colors and adjust settings
 - Explain compensation wizard. Load single colors in the wizard and perform compensation (explain the difference between compensation on ISX and on IDEAS)
 - Import compensation from IDEAS and run samples
- Saving data (USERS DATA) versus saving templates (USERS SETTINGS)
- Types of files (.rif, .cif, .daf)
- Troubleshooting
- Shutdown
- Explain log sheet, booking system, training process with assistance, when independent will change do Regular Usage
- Unit rules (working hours, assistance schedule, booking cancelations, turning ON and OFF the system)