

# Sample preparation Microscopy Lab


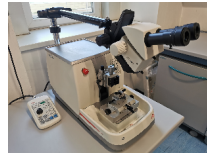

## Principle

Sample preparation is essential to obtain reliable, high-resolution images and accurate data in both optical microscopy and SEM. This involves various techniques and equipments.

## Capabilities

- Sample preparation

## Preparative Techniques

	Asset	Details
	<b>Polishing machine Struers Labopol-30</b>	Polishing machine equipped with an autosampler, to prepare embedded sections and surfaces, with a finish at 0,25 µm.
	<b>Microtomy Histocore Nanocut R</b>	Microtome to prepare cuts of samples, at room temperature, with a thickness in the range 0,5-50 µm.
	<b>Cryofracture</b>	Fracture of frozen of samples in liquid nitrogen (-196°C), to prepare sections of soft samples.
	<b>Metal Coater Quorum Q150T+</b>	Replacing an old cressington metal coater by a more performant one. Design safer with the glass chamber protected. Better metal coating (thinner grain), improvement of picture quality. Coating thinner (from 8 to 2-4 nm) for most samples. Change of metal from Ir to Pt. More automated coating cycle, shorter, gain in time

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