

Sample preparation Microscopy Lab

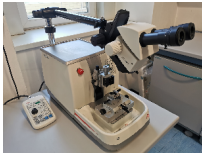
Principle

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
	Polishing machine Struers Labopol-30	Polishing machine equipped with an autosampler, to prepare embedded sections and surfaces, with a finish at 0,25 μm .
	Microtomy Histocore Nanocut R	Microtome to prepare cuts of samples, at room temperature, with a thickness in the range 0,5-50 μm .
	Cryofracture	Fracture of frozen of samples in liquid nitrogen (-196°C), to prepare sections of soft samples.
	Metal Coater Quorum Q150T+	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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