Removal of excess liquid surrounding the crystal(s)

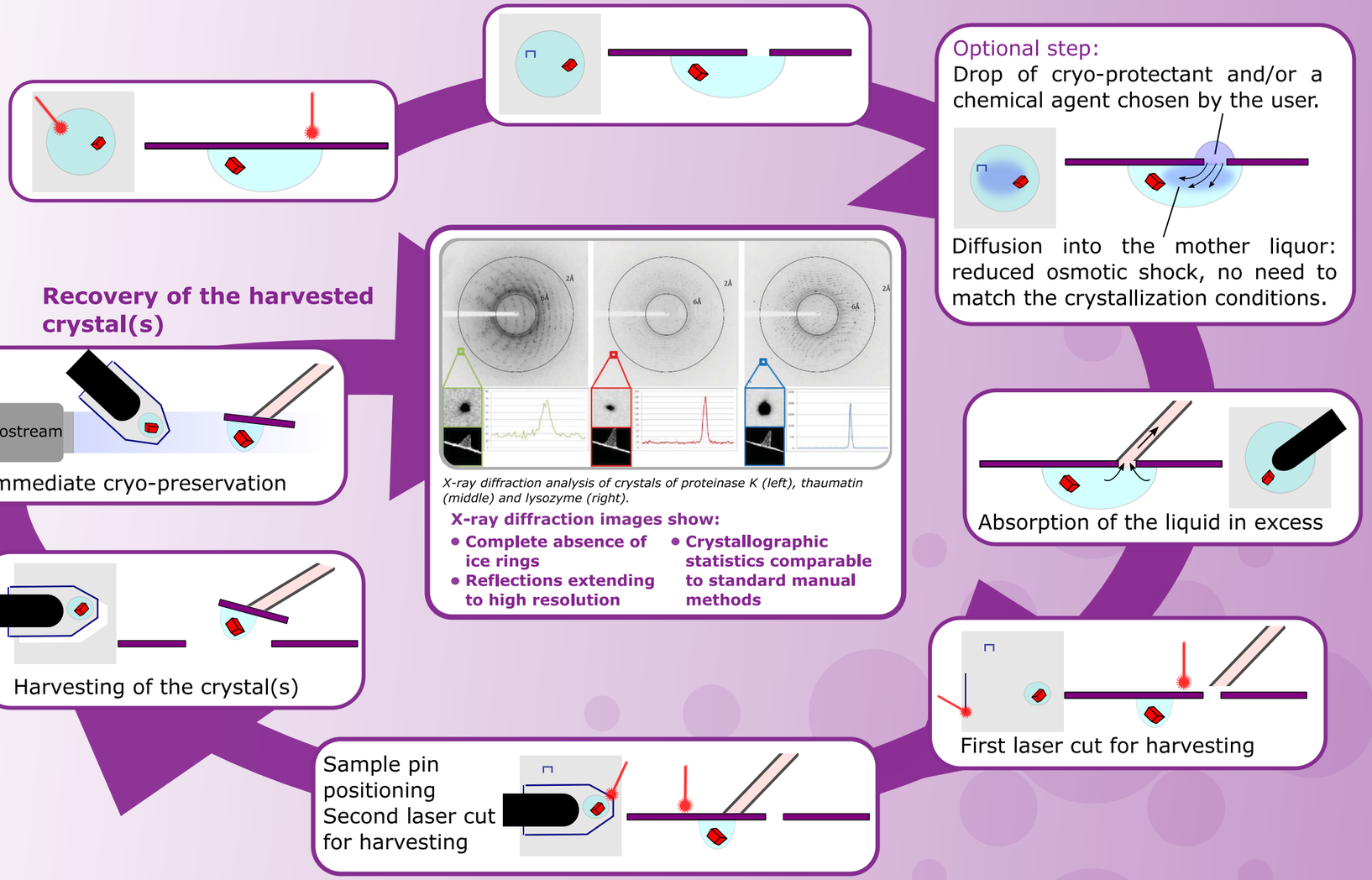
The mother liquor in excess provokes undesired X-ray background.
To limit this phenomenon, CrystalDirect® cuts an aperture in the crystallization support membran and, then, aspirates the surrounding liquid.

The membrane is cut by laser photoablation around selected crystal(s)

The user selects a cutting shap adapted to the shape and orientation of the crystal(s): CrystalDirect® will cut the membrane as set by the user. Then, the crystals are fixed on the sample pin which harvests them.

The harvested crystal(s) are immediately placed in the cryo-flux

The cryo-preservation process is automatic : the integrated cryo-nozzle generates a cryo-flux in which crystals are maintained until they are recovered either by a sample changer robot or manually.



Pictures and illustrations shown in this document are extracted from Zander *et al.* Acta Cryst. (2016). D72, 454–466, "Automated harvesting and processing of protein crystals through laser photoablation".