



Sydney Analytical Macromolecular crystallography

Sydney Analytical provides expertise and access to advanced equipment to facilitate macromolecular crystallography. This includes a Tecan liquid handler and crystallization robotics Mosquito[®] LV (sptlabtech) and NT8[®] (Formulatrix). These enable the automated setting of crystallization screens with hanging drop, sitting drop, additive, and seeding methods. Additionally, the NT8[®] can also facilitate Lipidic Cubic Phase (LCP) experiments for membrane protein crystallisation.

We have access to the Australian Synchrotron x-ray facility through the Collaborative Access Program (CAP) which allows for the screening and data collection for crystals. We also provide training to users on crystal screen set-up, crystal optimization as well as remote x-ray data collection at the Australian Synchrotron.



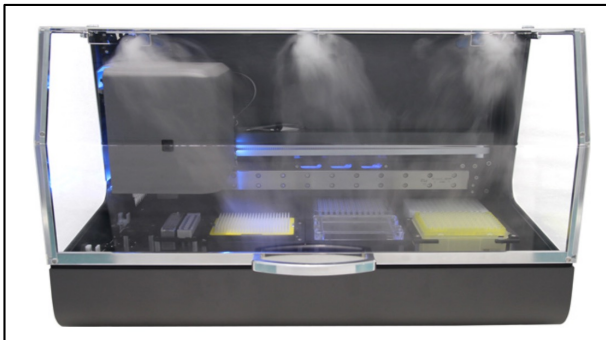
**Freedom Evo liquid handler
(Tecan)**



Mosquito LV (sptlabtech)



**Stereo Microscopes
(Leica)**



NT8 (Formulatrix)



Data collection at Australian Synchrotron

SERVICES PROVIDED

- ❖ Commercial crystallization screens
- ❖ Crystallization incubators
- ❖ Microscopes for crystal viewing
- ❖ Crystal cryo storage and shipping
- ❖ Remote x-ray data collection at the Australian Synchrotron
- ❖ Data collection and structure determination
- ❖ Crystallization and structure solution training

FOR MORE INFORMATION

Sydney Analytical – Protein crystallography

<https://www.sydney.edu.au/research/facilities/sydney-analytical/drug-discovery.html>

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