

Core Facility Crystallization of Proteins and Nucleic Acids
of the Centre of Molecular Structure at IBT
part of the Czech Infrastructure for Integrative Structural Biology

**INTRODUCES NEW CRYSTALLIZATION HOTEL RI182
DEDICATED TO LOW TEMPERATURES**

Historically, some macromolecular crystallography projects were successful only with crystallization at defined lower temperatures. Apart from the storage of your experiments at low temperatures in a dedicated incubator we now provide also the possibility of automated screening of robotically or manually set up crystallization experiments at low temperature.

The new crystallization hotel RI182 from Formulatrix, which has been recently installed in the CMS cold-room, was successfully tested and is now ready for all users of our crystallization facility. The hotel is able to store crystallization plates at 10 °C (SBS format, or Lipidic Cubic Phase) and image them according to the pre-set time schedule in visible light, polarized light, and UV light.



All the images obtained can be viewed, analyzed, and evaluated using the Rock Maker software. The evaluation automatically includes the Marco algorithm (Machine Recognition of Crystallization Outcomes), and all the functionalities of the Rock Maker are also available online via the RockMakerWeb.

The fully automated imaging for low temperature experiments is an important improvement of screening equipment of our crystallization facility.

For more information contact us at jiri.pavlicek@ibt.cas.cz or call +420 325 873 787
You can also visit <https://www.ibt.cas.cz/en/core-facilities/centre-of-molecular-structure/> or ciisb.org

Sponsored by the project Modernization of the Czech Infrastructure for Integrative Structural Biology (CZ.02.1.01/0.0/0.0/18_046/0015974) from the ERDF Operational program Research, Development and Education, MEYS