

# Technology

## Platforms

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University of Zurich

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**Strategic Research Platforms**



**University of  
Zurich** <sup>UZH</sup>

# PCC@UZH

## HT-Protein Crystallization Center & Screen Pipetting Service

### Services

- Setting up nanoliter-scale vapor diffusion crystallization experiments for proteins, peptides, organic salts, and active pharmaceuticals
- Routinely pipetting drop volumes between 50 nl and 0.5 ml in multi-well crystallization plates
- Set-up temperature 20°C or 4°C
- Imaging of incubated experiments in Formulatrix® RockImagers® at 20°C or 4°C
- Visible Light Imaging with zoom 12:1 and cross polarizer
- UV Fluorescence imaging for protein verification
- Remote monitoring and analysis of experiments
- Excel EZ-Screen Builder developed in-house enables quick and versatile setup even of sophisticated screens
- Screen Builder ideal for salt, precipitant, and pH gradients along single rows or across the entire 2D area
- Use of up to 30 different stock solutions

### Location

PCC  
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### Details

[www.bioc.uzh.ch/en/research/core-facilities/protein-crystallization-center](http://www.bioc.uzh.ch/en/research/core-facilities/protein-crystallization-center)



### About

The Protein Crystallization Center – PCC@UZH – supports structural biology research by performing and monitoring high-throughput protein crystallization experiments in the nanoliter range. PCC@UZH offers a wide range of crystallization techniques for soluble and membrane proteins. The crystallization service is open to both academic researchers and the private sector.

More than 40 initial crystallization screens are available for vapor diffusion experiments, which are set up by an experienced operator at PCC. Experiments are conducted at 20°C or 4°C with drop volumes and ratios set by the researchers.

Crystallization experiments are incubated at either 20°C or 4°C and imaged for up to 100 days using the RockImager®. For experiment imaging, the schedule is set for visible light and cross-polarization. If needed, the researchers can initiate a UV fluorescence image for protein verification.

Researchers have access to all functions of the RockMaker® application via the Citrix Workspace and thus enjoy full control over the crystallization experiments.

The EZ-Screen Builder provides the researcher with an intuitive screen design tool for crystal refinement by allowing screens with concentration or pH gradients in any direction and over any range in a 96-well plate using up to 30 different stock solutions.

Price information and a confidentiality agreement can be found on the PCC website.