

X-ray Crystallography Services Specializing in Protein Structure Biology for Drug Discovery and the Biochemical Industry

# C-Platform

High-resolution X-ray crystallographic platform service for protein structural analysis

#### High-resolution data can provide more accurate structural information

In order to know structural details of a protein binding to a ligand, it is extremely important to study the electron density map (EDM) of the protein molecule and the ligand directly from experimental data. Higher resolution X-ray diffraction data is best.

Example of an electron density map of a high-resolution structure (0.89 Å)





The electron density corresponding to core and bonding electrons, including those of hydrogen atoms (shown in red), can be observed.



The position and orientation of ligands (shown in red) at binding sites can be determined in detail.

( SPring-8 BL12  $\checkmark$  JAXA's technical development )



#### C-Platform Services

After the initial high-throughput protein crystallographic analysis, higher resolution data is generally needed to obtain a finer electron density map, since it is far-reaching and more informative. We can provide high-resolution X-ray crystallography with our expert staff scientists. Our extensive experience allows us to provide a full range of the services our customers need, from protein expression to structure analysis, for high-resolution crystallography.



high-resolution X-ray diffraction

data (e.g. beyond 0.8 Å).

Co-crystallization, in which we have acquired a lot of skill, is necessary for protein-ligand complexes. Customers can submit ligand compounds anytime after developing a crystallographic platform for the target protein.

### Alliance for C-Platform Service

may be the answer to your

needs.

**Confocal Science : Organizer of the alliance** 

Maruwa Foods and Biosciences, Experts in X-ray protein crystallography

Wako Pure Chemical Industries, Experts in protein expression

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