

## Summary of service items and fee about the IBC Protein X-ray Crystallography service

Service items and fees (NTD/per unit)

|   | Only for IBC users  |
|---|---|
| <b>A. Robotic crystallization screening with 96-well plate<sup>(1)</sup></b>                  |   |
| A.1 Sitting-drop plate with 1 drop/per well (TW brand)  | A.1 (650/plate)   |
| A.2 Sitting-drop plate with 1 drop/per well (Greiner)   | A.2 (1250/plate)  |
| A.3 Sitting-drop plate with 3 drops/per well (Intelli-plate)                                  | A.3 (1000/plate)  |
| A.4 Additive screening with sitting-drop plate (TW brand)                                     | A.4 (650/plate)   |
| A.5 Additive screening with sitting-drop plate (Intelli-plate)                                | A.5 (1000/plate)  |
| A.6 Screening with user-prepared plate  | A.6 (600/plate)   |
| A.7 Screening with user-prepared conditions <sup>(2)</sup>                                    | A.7 (750/plate)   |
| A.8 Screening with user-prepared plate and conditions   | A.8 (400/plate)   |
| <b>B. Manual crystallization screening with 96-well plate<sup>(1),(3)</sup></b>               |   |
| B.1 Sitting-drop plate with 2 drops/per well (Intelli-plate)                                  | B.1 (680/plate)   |
| B.2 Sitting-drop plate with 1 drop/per well (TW brand)  | B.2 (400/plate)   |
| <b>C. Incubators for crystallization plates</b>   |   |
| Incubators for crystallization plates <sup>(4)</sup>  | (20/plate/month)  |
| <b>D. Crystal inspection with UV-imaging system</b>   |   |
| Crystal inspection with UV-imaging system <sup>(5)</sup>                                      | Free of charge  |
| <b>E. Crystal refinement, soaking and co-crystallization<sup>(6)</sup></b>                    |   |
| E.1 24-well hanging-drop plate (TW brand)   | E.1 (250/plate)   |
| E.2 24-well hanging-drop plate without sealant (int'l brand)                                  | E.2 (300/plate)   |
| E.3 24-well hanging-drop plate with sealant (int'l brand)                                     | E.3 (420/plate)   |
| E.4 96-well sitting-drop plate (TW brand)   | E.4 (180/plate)   |
| E.5 24-well sitting-drop plate (int'l brand)  | E.5 (300/plate)   |
| E.6 48-well sitting-drop plate (int'l brand)  | E.6 (420/plate)   |
| E.7 96-well sitting-drop plate (int'l brand)  | E.7 (420/plate)   |
| <b>F. Stock solutions for crystallization condition optimization</b>                          |   |
| Stock solutions of various polymers, organics, salts and buffers (2-22 ml/per unit)           | (250/per unit)  |
| <b>G. Customized crystallization strategy</b>   | Consultation  |
| <b>H. Design of expression construct for increasing crystallization probability</b>           | Consultation  |
| <b>I. X-ray data collection</b>   |   |
| I.1 Crystal shipping to synchrotron radiation center  | I.1 (200/puck) <sup>(7)</sup>   |
| I.2 X-ray diffraction test with synchrotron light source <sup>(8)</sup>                       | I.2 (400/condition)   |
| I.3 X-ray data collection with synchrotron light source <sup>(9)</sup>                        | I.3 (1500/condition)  |
| <b>J. Structure determination, model building, refinement and validation</b>                  |   |
| J.1 Crystal structure determination <sup>(10)</sup>   | Collaboration. User should pay the manpower cost at <b>400/per hour</b> . |
| J.2 Model building, refinement and validation for X-ray crystallographic data <sup>(10)</sup> |   |
| J.3 Model building for cryo-EM data <sup>(11)</sup>   |   |
| <b>K. Integrated service (from purified protein to validated crystal structure)</b>           | Collaboration <sup>(12)</sup>   |
| <b>L. Homology modeling, molecular docking and simulation</b>                                 | Collaboration. User should pay the manpower cost at <b>400/per hour</b> . |

<sup>(1)</sup>A pre-crystallization test (PCT) of protein concentration is included. Free for 3-month storage of the plates in our incubators.

<sup>(2)</sup>The facility provides the sitting-drop Intelli-plate.

<sup>(3)</sup>The facility provides all the consumables and reagents, but users should set up the crystallization plates themselves.

<sup>(4)</sup>User gets 3-month free storage if the plates are set up via the core service.

<sup>(5)</sup>Only the UV-compatible plates are allowed.

<sup>(6)</sup>The facility provides cover slides, tape and other relevant tools, **but not** crystallization solutions.

<sup>(7)</sup>Each puck can be loaded with up to 16 crystals.

<sup>(8)</sup>User should pay the fee of crystal shipping.

<sup>(9)</sup>User should upload the preliminary diffraction data for full data set collection and pay the fee of crystal shipping. All publications resulting from the use of TPP synchrotron beamtime should acknowledge TPP.

<sup>(10)</sup>User should upload the crystal picture, X-ray diffraction image and data-collection statistics and the facility has the right to decide whether a case will proceed.

<sup>(11)</sup>The facility has the right to decide whether a case will proceed.

<sup>(12)</sup>User must provide manpower and pay the usage fee for the fee-based service items.