# Protein Crystal Growth in Kibo (PCG)



#### Overview

### **Contributing toward Effective Drug Design**, **Efficient Industrial Enzyme Improvement, etc.**

#### Acquiring high quality protein crystal in Kibo

JAXA's Hyper-Qpro Technology support your research & development



## Advantages of Kibo In Kibo













improvement









- Aiming for the development of a new antimalarial medicine -



The purpose of this experiment is to grow high quality crystals of the target enzymes using JAXA's high quality protein crystal growth technology. The crystals will be used to conduct precise structural analysis of enzymes, which are important for the development of a new antimalarial medicine. Since Malaria is a serious disease in equatorial countries that infects more than 200 million people and kills more than 400,000 people each year, the development of new medicine is necessary. The Principal Investigator is Dr. Chairat Uthaipibull of NSTDA (National Science and **Technology Development Agency).** The sample was launched to Kibo on SpX-18 in 2019. The research team is analyzing the returned sample in Japan and Thailand.



precipitant

1.50Å

