

Open Call

Single Particle Analysis using Cryo-EM Workshop

Dates : 10-13 October 2023

9.00 am to 5 pm

Venue : Cryo-EM Facility, Jl. Raya Jakarta-Bogor No. Km. 46, Cibinong, Indonesia.

Only for 20 selected participants

Submit before Sept 15th, 2023



Biochemical/Chemical iterations



<5Å

Identify ligand binding



<2 Å

Uncover interaction details

About the Workshop

Cryo-Electron Microscopy (cryo-EM) is an exceptionally powerful imaging technique used to visualize the three-dimensional (3D) structure of biological macromolecules at atomic resolution. It has brought about a revolution in the field of structural biology, becoming an indispensable tool for studying the intricate structure and function of complex biomolecules.

Single-Particle Analysis (SPA) is a method that enables the determination of the 3D structure of biological macromolecules by analyzing individual particles. What sets cryo-EM apart from other methods is its ability to provide unique insights into the functional aspects of these proteins without the need for crystal formation

BRIN aims to organize a comprehensive Cryo-EM Workshop during **10-13 October 2023** and will be conducted in collaboration with Thermo Fisher Scientific, a renowned company with expertise in Cryo-EM research and training.

A week prior to the workshops we held an online session on **5 October 2023** covering an Introduction to Cryo-EM: Basic Concepts, working principles, and the Advantages of Cryo-EM in structural biology research.

BRIN will offer free protein 3D structural determination services to all selected participants with protein sample.

Selection Criteria

20 participant will be selected based on:

- Researchers from universities / institute working with protein
- Preferable individuals actively engaged in research projects with purified proteins suitable for Cryo-EM analysis.
- Participants with access to and permission to bring their purified proteins for analysis during the training.
- Researchers with a strong background in protein or structural biology or related fields.
- Participants who demonstrate a genuine interest and commitment to incorporating Cryo-EM into their research.
- Willing to join and complete all session training (5, 10-13 October 2023)

Certification You will receive a certificate from BRIN and Thermo Fisher Scientific, recognizing your Cryo-EM proficiency.

Funding BRIN will supports all the training costs, including accommodation in Asrama Edelweiss Cibinong and lunch

Apply Now For inquiries and proposal, submit **this form** (<https://bit.ly/SPA-BRIN>) before September 15, 2023 23.59 Jakarta time to [cyro-em@brin.go.id] with subject email SPA_(Last name)_(First name). Please send CC to [dana-risnov@brin.go.id]

Selected participant will be announced on Sept 24, 2023