Example of Cryo-EM Project Proposal Form for Submission in User Portal

November 2021
After logging in to User Portal at: https://userportal.slacstanford.edu select CryoEM ➔ Projects ➔ Submit Project Request
SLAC/Stanford Cryo-Electron Microscopy

CryoEM Project

Project Information (Step 1 of 3)

= Required input

Proposal Type

Select Project Type

- Stanford-SLAC CryoEM Facilities (for Stanford investigators)
- Stanford-SLAC CryoEM Center – S2C2 (NIH Common Fund National Service Center)
- Other

Continue to Project Information  Cancel
CryoEM S2C2 Project Title

Provide a brief title (less than 80 characters) that you would be willing to share publicly on the website.

You have 80 characters left.

Project Type

PROJECT TYPE DESCRIPTIONS

- Service Project - will require minimum resource staff assistance beyond loading grids and initiating the data collection.
- Collaborative Project - will involve extensive resource staff participation and result in joint publications. Not available in S2C2 program.
- Training Project - will include workshop and in-residence program. Projects done during the in-residence period may lead to joint publications.
- Screening / Freezing / Exploratory Access - does not require convincing preliminary data.
Abstract

Aims & Impact: Please state the specific objectives of your project. Include the scientific and technical importance of your project. (150 words or less)

Feasibility & Data: Provide information and preliminary data for the samples associated with this proposal that impact feasibility of cryo-EM studies: molecular weight, stability, homogeneity, sufficient concentrations, etc. Experimental preliminary data may include SDS-PAGE gels, SEC traces, negative-stain EM, preliminary cryo-EM screening, etc.

Proposed Experiments: Describe the work to be conducted at the national center during the awarded project period. For each aim and/or sample under investigation, provide a detailed description of the experiment(s) to be performed and expected outcomes. Strength of justification kann affect the overall science and resource scores. (150 words or less)

Goals & Expectations: Please describe the goals for this project. This section should also include a justification for specific instruments requested, if any, and for the estimated allocation of time for each experiment. (200 words or less)

Expertise & Resources: Describe the team’s expertise in CryoEM sample preparation, microscope operation, and data interpretation. Please state the available CryoEM and/or computational resources that your team has access to. (200 words or less)

Figures/Preliminary Results: Provide scientific figures with captions to reference within the Feasibility & Data section. (1 page supplemental PDF)
Project Documents

Project Description document: in fewer than 1,000 words, describe Aims & Impacts; Feasibility & Data; Proposed Experiments; Goals & Expectations; Expertise & Resources. For S2C2 project application you must include preliminary data images (e.g. SDS page gels, sEc traces, negative stain EM, preliminary cryo-EM screening, 2D class averages and 3D map with specified resolution). Project proposals for the S2C2 program are sent to an external panel to review the feasibility and scientific merit of the proposed research.

<table>
<thead>
<tr>
<th>Project Description PDF File</th>
<th>File Type / Guidelines</th>
<th>Filename</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Upload" /></td>
<td>Project Description</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Use this area to upload PDF version of any supporting documents needed for this project (publication history, biosketch, preliminary data document, etc.). Please use descriptive filenames.

<table>
<thead>
<tr>
<th>Manage PDF Files</th>
<th>File Type / Guidelines</th>
<th>Filename</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Upload" /></td>
<td>Project Document</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Safety Information

Provide a description of your samples including the type(s), source organism(s) and associated hazards such as toxicity and biohazard level (risk group). Please upload material approval documents from your institution (e.g., IBC documents, MSDS, approved SOP/protocols) in the Biosafety Documents area. If not presently available this documentation must be provided with a microscope time request later on in the process.

Summarize your samples

Biosafety Level

- BSL1
- BSL2
- N/A

SLAC not currently able to handle samples with a BSL of higher than 2. If you are unsure of your sample’s BSL, please search the ABSA database and provide relevant details in your project description.
Research Team

Identify members of your research team below. The Principal Investigator is the person who is responsible for the research project in this proposal and with whom we will correspond. Lead Contacts are also able to fulfill the responsibilities of submitting microscope time requests and corresponding with Center staff about data collection. If you are submitting this proposal on behalf of your PI, please include the PI on the list as one of the collaborators, but please add a note in the feedback/comments section that indicates who the PI is. We will adjust the roles when we process the proposal. To enter any individual, start with their last name or email address to access and select names already in our database. If no matching record is found, enter a name and email address. They will be invited to register in the portal at the time the proposal is accepted. [Glossary]
Grants

Grant Funding Source (should match one checked above) ☐ Please select a funding source

Grant Number ☐

Grant Title ☐

Grant Start Date mm/dd/yyyy ☐

Grant End Date mm/dd/yyyy ☐

Annual Total Cost (whole dollars only) ☐

Add another Grant

If applicable, please include NIH eRA Commons number in this box.
Scheduling Information

Are you or your co-proposers new to the use of CryoEM?
- Yes
- No

Would training or interaction with CryoEM scientists related to the proposed techniques or capabilities be helpful to you or your co-proposers?
- Yes
- No

Do you have access to CryoEM microscopes at your home institution, other institutions / NIH-funded CryoEM Centers?
- Yes
- No

If yes list instruments and frequency of access

Will you be performing proprietary research?
- Yes
- No

How many days do you estimate that you will need to complete your proposed project?
Publications Info

List (or upload below) PUBLICATIONS, PATENTS, and major awards that resulted from your previous time at CryoEM

Feedback or Other Comments Related to this Proposal