CSB CryoEM Facility (CCF)

– Titan Krios G4 Cryo-ET Access Proposal

Submit this form to the CCF Executive Review Committee for initial approval (Mr. Mi Li; emails: lim@mail.nih.gov).

**Project Title:**

**Principal Investigator (PI):**

**Lab/Branch:**

**Email:**

## 1. Project Summary (≤250 words)

## 2. Sample Description

Please, specify whether the specimen is sufficiently thin for tomographic data collection or it needs to be milled.

Macromolecular target(s) for subtomographic averaging:

Approximate size (kDa) of target(s) for subtomographic averaging:

Point-group symmetry of target(s) for subtomographic averaging:

## 3. Supporting Data and updated Progress Report (Attach as PDF or include Pictures)

* Please, include any preliminary data supporting feasibility of the project.

**4. Target Resolution and Data Volume**

* Please, specify how many tomograms will you be able to collect per day in the acquisition geometry that you plan to use. Please, account for possible milling and lamella transfer time and acquisition area search time.
* Please, specify how many copies of the molecular target(s) for subtomographic averaging is available per electron microscope specimen (cell or milled lamella).
* Please, specify how you plan to identify subtomograms in the cellular tomograms and what the anticipated success rate of the detection will be.
* Target resolution (Å):
* # subtomograms per asymmetric unit needed to meet the target resolution:
* Estimated data volume (e.g., # of tomograms):
* Estimated number of useable subtomograms per cellular tomogram:

**Note:**

1. For non-structural biology laboratories, please specify a collaborating laboratory within CCR or the broader NIH community that has cryoET expertise.
2. Please include the following acknowledgment in any publication that uses data generated at the CCF:
*“This study utilized the Center for Structural Biology CryoEM Facility at the Center for Cancer Research, NCI, NIH.”*
Kindly notify us at lim@mail.nih.gov once the related paper is accepted.

**PI Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**