To be completed **ONLY** for **'Solution-tO-Structure'** Rolling Access proposal:

SAMPLE:

1. Please provide evidence on sample purity and homogeneity (SEC, DLS, SEC-MALS, etc.)

2. What is the molecular weight (**in kDa**) of the sample as estimated by biophysical characterization (gel filtration, SEC-MALS, etc). If it is a complex of several proteins, also provide the MW of all the fragments of the complex.

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3. What is the sample concentration **(in mg/ml)**? What technique (nanodrop, etc) was used to measure it?

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4. What is the sample buffer? Please refer to the references below and CM01 website for buffer compatibility. Please provide at least 10ml of buffer (in 2ml aliquots) for potential dilutions.

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5. Please choose if any of the below has been already performed?
   ☐ Negative-stain ☐ Vitrification ☐ cryo-EM grid screening ☐ None

6. If Negative-stain is chosen in #5, please indicate which **stain** was used and the outcome. P**lease provide a field-of-view from the NS-EM experiment**.

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7. If Vitrification is chosen in #5, please indicate **the grid types** tried and the corresponding outcome.

	Mesh (200/300/400)	**1.2/1.3** OR **2/1** OR **2/2** OR other (specify)	outcome
Quantifoil			
C-flat			
Ultrafoil			
Other (specify)			

8. If cryo-EM grid screening has been chosen in #5, please indicate the outcome and related vitrification conditions (grid type, protein concentration). **Please provide a field-of-view from the cryo-EM experiment.**

Please keep in mind that the SOS pipeline for a successful experiment finishes with the collection of a data set. Image analysis is not included and the proposer should confirm that she/he is able to perform this task.

9. Which of the below computing infrastructure(s) you have access to?

   ☐ GPU ☐ CPU ☐ cryo-EM software (RELION, cryo-SPARC, etc)

10. How many cryo-EM structures have been solved from your laboratory?
    ☐ 0 ☐ <5 ☐ >10

11. If #8 and #9 are not applicable, do you have collaboration with a cryo-EM lab for image analysis? If yes, please give details.

REFERENCES:

1. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5140023/
2. https://www.sciencedirect.com/science/article/pii/S1046202316300330
3. https://www.jove.com/t/52311/do-s-don-ts-cryo-electron-microscopy-primer-on-sample-preparation
4. https://link.springer.com/article/10.1007/s12551-019-00571-w