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## **change symmetry for furthur refinement**

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#1



jamonsi

change symmetry for further refinement

I have reached 3.0 Å with C1 symmetry. Thus I created a new refinement package out of last C1 3D results but change the symmetry from C1 to C2 (or D2), then run refinement again. Somehow the 3D refinement totally messed up and looks NOT correct at all. I am wondering what's going wrong.





niko

## Use align\_symmetry

You will have to first align the previously created reconstruction with your symmetry axes. You can use the tool `align_symmetry` that is part of `cisTEM` and can be found in the `bin` directory. Use it on your final reconstruction (which should be in the `Volumes` directory inside `Assets`) and import the output of `align_symmetry` back into `cisTEM` (**Import** option in **Volume Assets**). Then use this reconstruction as your reference in **Auto Refine** or **Manual Refine**. If you use **Manual Refine**, you will have to perform a single round of **Global Search** to align all particles to the new reference (**Auto Refine** performs global searches automatically).







timgrant

It's maybe also worth noting

It's maybe also worth noting here, that if you do an ab-initio with symmetry, the symmetry alignment will be done for you, and the resulting model should already be aligned to the symmetry axes and have symmetry imposed.

Cheers,

Tim

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