change symmetry for further refinement

Sat, 12/09/2017 - 04:24
jamonshi
change symmetry for furthur refinement

I have reached 3.x A with C1 symmetry. Thus I created a new refinement packages out of last C1 3D results but change the symmetry from C1 to C2(or D2), then run refinement again. Somehow the 3D refinement totoally messed up and looks NOT correct at all. I am wondering what's goes 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-inito 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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