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# CTF estimation on motioncorrected movies

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CTF estimation on motioncorrected movies

Hey,

I'm having problems trying to do CTF estimation on movies that have been motion corrected using MotionCor. Importing these movies either as movies or images will not allow me to select them as movies in the CTF estimation action - is there a formatting change I need to make?

Thanks





timgrant

Hi,

Hi,

If you import aligned images, then you cannot use movies for the CTF estimation, as cisTEM doesn't know which movies belong to the images. If you import movies, then you can't do CTF estimation until you have aligned the movies - obviously at this point, the movies will have been aligned in Unblur and not MotionCor. There isn't a way to import images and movies, and do the estimation of the movies I'm afraid.

You can import the images, then do the CTF estimation on the images, but it sounds like you don't want to do that.

if you do want to do it, then currently the only way would be to use one of the following "hacks" :-

1. import movies, then align them using cisTEM. Then copy the MotionCor aligned movie file over the cisTEM aligned movie file.
2. Import movies and images, then hack the database such that the images point to the correct movie. The database is in sqlite format, and you can use the command line sqlite3 program to make changes to it, but you need to have some experience with SQL. The images are all listed in a table called image\_assets, and the movies are in a table called movie\_assets. The column parent\_movie\_id in the image\_assets table needs to equal the movie\_asset\_id column in the movie\_assets table for them to be linked.

I'm sorry there isn't currently an easier way to do what you want.

Tim



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