



View Model building

Model building

- Imports
 - import volumes
 - import atomic structure
 - import sequence
- Preprocess map
 - xmipp3 - create 3d mask**
 - xmipp3 - local MonoRes
 - xmipp3 - localdeblur sharpening
 - xmipp3 - extract asymmetric unit
 - xmipp3 - deepEMhancer
- Initial model
 - chimerax - model from template
- Rigid fitting
 - phenix - dock in map
 - chimerax - rigid fit
- Flexible fitting
 - ccp4 - coot refinement
 - ccp4 - refmac
 - phenix - real space refine
- Validation
 - phenix - emringer
 - phenix - molprobtity
 - phenix - validation_cryoem
 - xmipp3 - validate fsc-q
- Tools-Calculators
 - atomstructutils - operator
 - atomstructutils - convert_sym
 - phenix - superpose pdbx
 - chimerax - operate
 - chimerax - restore session
 - chimerax - contacts
 - chimerax - map subtraction
 - xmipp3 - map from atomic structure
- Others
- Exports
 - export to DB

Protocol Run: XmippProtCreateMask3D

mipp Protocol: xmipp3 - create 3d mask finished Cite Help

Run

Run name xmipp3 - create 3d mask HEM Comment

Run mode ☒ Continue ☐ Restart ? Host localhost

Use queue? ☐ Yes ☒ No ?

Wait for

Mask generation Postprocessing

Mask generation

Mask source Volume

Input volume pwem - import volumes HEMOGLOBIN.outputVolume ? ? ? ?

Operation Threshold

Threshold 0.167

Close Save Execute

Mask generation Postprocessing

Postprocessing

Remove small objects ☐ Yes ☒ No ?

Keep largest component ☐ Yes ☒ No ?

Symmetrize mask ☐ Yes ☒ No ?

Apply morphological operation ☒ Yes ☐ No ?

Operation dilation

Structural element size 1

Invert the mask ☐ Yes ☒ No ?

Smooth borders ☐ Yes ☒ No ?

Close Save Execute

(px)
1.05 Å/px)

Analyze Results