

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 - molprobtty
- phenix - validation\_cryoem
- xmipp3 - validate fsc-q

## Tools-Calculators

- atomstructutils - operator
- atomstructutils - convert\_sym
- phenix - superpose pdbs
- chimerax - operate
- chimerax - restore session

Protocol Run: XmippProtLocSharp



Protocol: xmipp3 - localdeblur sharpening

finished



? Help

Run

Run name xmipp3 - localdeblur sharpening Comment

Run mode ☒ Continue ☐ Restart Host localhost

Parallel Threads 4 Use queue? ☐ Yes ☒ No

Wait for

Expert Level

☐ Normal ☒ Advanced

Input

Input

Input Map pwm - import volumes HEMOGLOBIN.outputVolume

Resolution Map xmipp3 - local MonoRes.resolution\_Volume

lambda 1.0

K 0.025

Close

Save

Execute

√/px)

resolutionVolume (from xmipp3 - local MonoRes -&gt; resolution Volume Volume (100 x 100 x 100, 1.05 Å/px))

Output

xmipp3 - localdeblur sharpening -&gt; outputVolumes

SetOfVolumes (2 items, 100 x 100 x 100, 1.05 Å/px)

SUMMARY

LocalDeblur Map

Analyze Results