

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 - reftac
- 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 pdbs
- chimerax - operate
- chimerax - restore session
- chimerax - contacts
- chimerax - map subtraction
- xmipp3 - map from atomic structure

Others

Exports

- export to DB

B  **Protocol: ccp4 - coot refinement** Cite Help

Run

Run name ccp4 - coot refinement (2) Comment

Run mode Continue Restart Host localhost

Use queue? Yes No Wait for

Input **Help**

Input

| Input Volume/s | Object | Info |
|----------------|--------|------|
| | | |

Normalize Yes No

Atomic structure to be refined

| Object | Info |
|--------|------|
| | |

Other reference atomic structures

| Object | Info |
|--------|------|
| | |

Close **Save** **Execute**