

A

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 - molprobrity
- 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 Run: ChimeraProtOperate

Protocol: chimera - operate [Cite](#) [Help](#)

Run

Run name chimerax - operate (2) [Edit](#) **Comment** [Edit](#)

Run mode ☒ Continue ☐ Restart [?](#) **Host** localhost [?](#)

Use queue? ☐ Yes ☒ No [?](#)

Wait for [?](#)

Input [Help](#)

Input

Input Volume		Search	Delete	View	Help				
Input additional Volumes	<table border="1"> <thead> <tr> <th>Object</th> <th>Info</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> </tbody> </table>	Object	Info			Search	Delete	View	Help
Object	Info								

Atomic structure		Search	Delete	View	Help				
Other atomic structures	<table border="1"> <thead> <tr> <th>Object</th> <th>Info</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> </tbody> </table>	Object	Info			Search	Delete	View	Help
Object	Info								

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