## Converting AutoDock Vina results to mol2

- The docking results didn't really have a logical naming scheme. I decided to rename them based the ZINC identifier. I did this in a short jupyter notebook: 3cl-pro/ADVina/analyze/renameDocked.ipynb
- The pdbqt formatted files from AutoDock aren't readily accepted by YANK. I converted the files into mol2 format using a short jupyter notebook based on OpenBabel: 3cl-pro/YANK\_GAFF/ligands/0-build/convert\_ADVina\_to\_mol2.ipynb
- In the OpenBabel command,
  - the option `-I 1' means that the mol2 file will have one binding pose
  - the option `-p 7' means that hydrogen atoms will be added based on pH 7

## Running YANK

- YANK parameters are described in YAML scripts, e.g. 3cl-pro/YANK\_GAFF/ yaml/MPro\_ZINC000001542916.yaml
- Running `yank script -y MPro\_ZINC000001542916.yaml' will execute the code, but you shouldn't do it on the login node on Bridges
- On Bridges you can enter `python submit\_YANK.py --type shared --yaml
  MPro\_ZINC000001542916.yaml', which will create a script and submit it to the queue.