

Zinc Finger RasMol Exercise

1. Search protein data bank for the pdb file 1ZAA.
2. Download the file to your RasMol folder
3. Review Structure Summary Page
4. Start RasMol and open 1ZAA in RasMol
5. Change the background color
6. There are 3 zinc fingers in this file bound to a section of DNA. We only want to look at Zinc Finger #1. Restrict the display to only show Zinc Finger #1 (amino acids 4-31) on chain C
7. Display zinc finger #1 in the alpha carbon backbone format
8. Center the molecule
9. Display Zinc ion in relation to the zinc finger
10. Display sidechains for the histidine and cysteines coordinating the zinc ion
11. Display the sidechain for Phe16
12. Display the sidechain for Leu22
13. Display the sidechain for Arg18