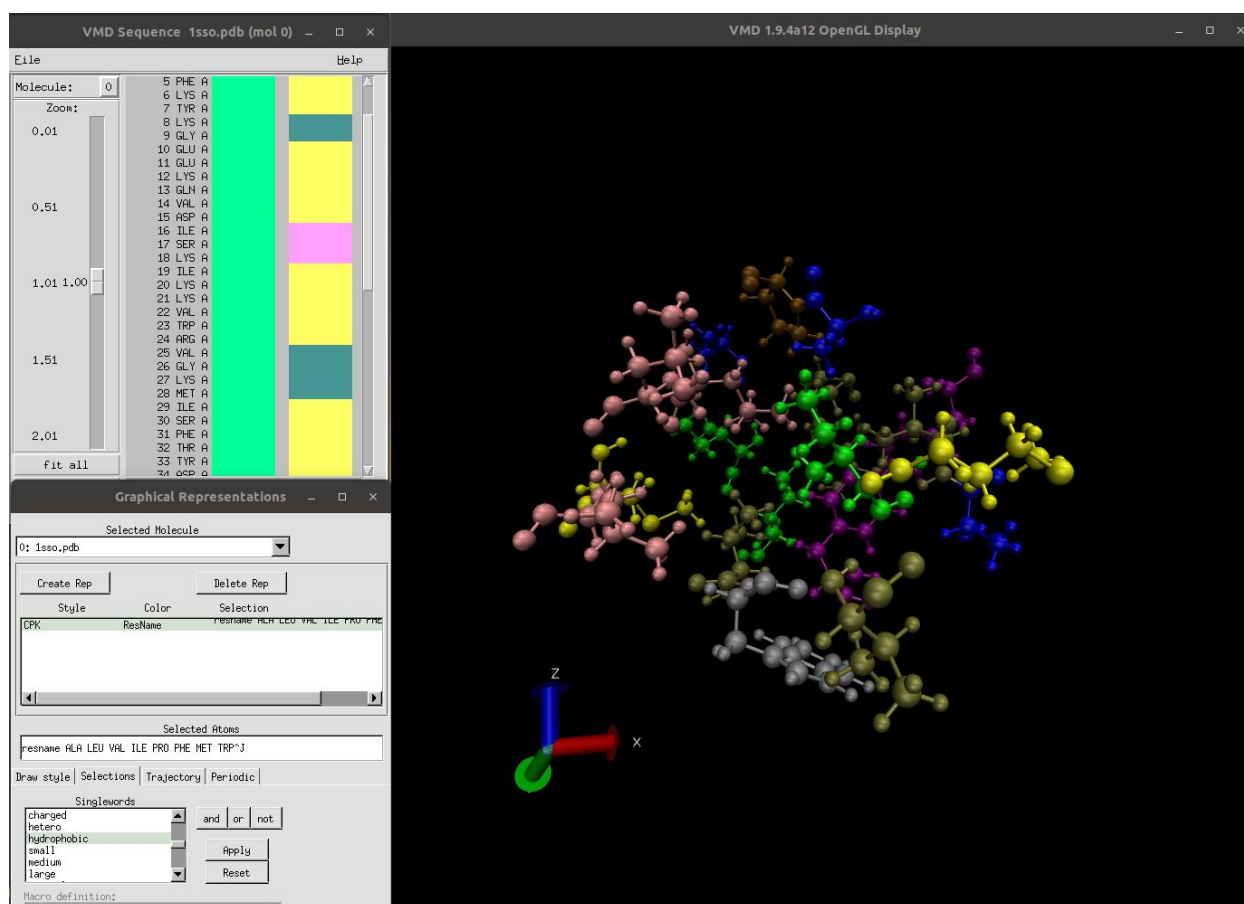


PROTEIN STRUCTURES 1

BIOMOLECULAR STRUCTURES

SHREEYA PAHUNE

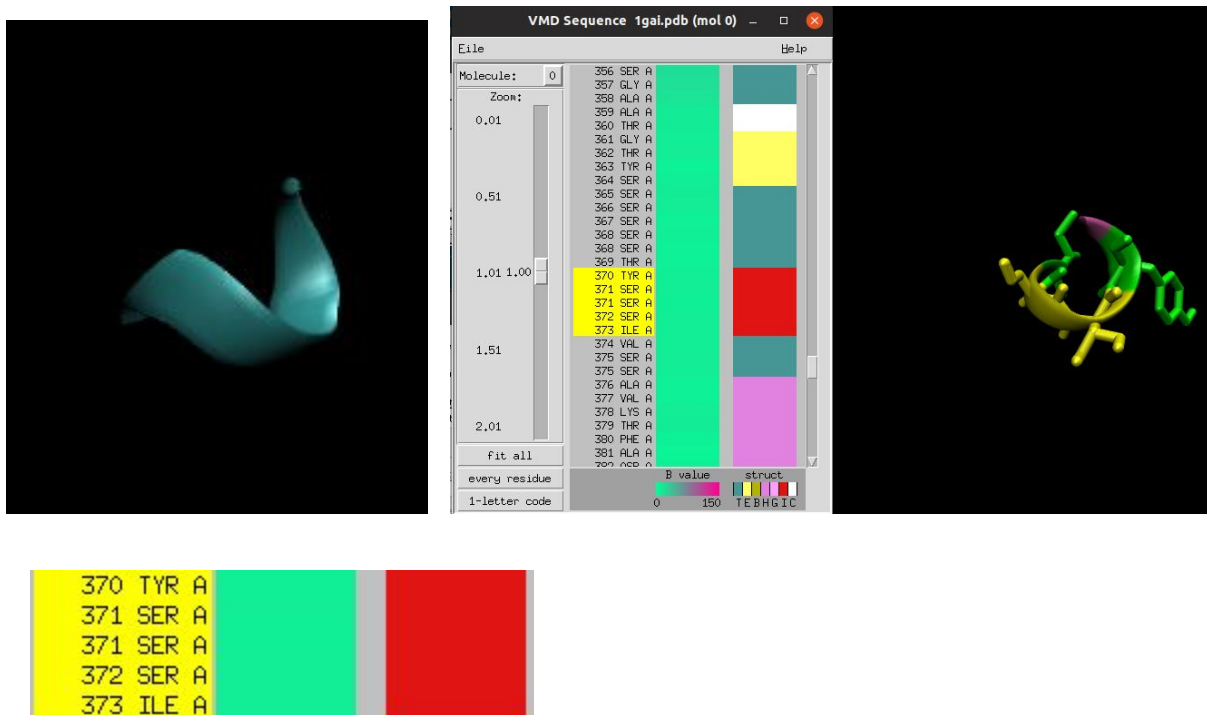
Q1: Hydrophobic Core



All residues included in the hydrophobic selection are present in the protein (as verified from the sequence viewer extension):

resname ALA LEU VAL ILE PRO PHE MET TRP

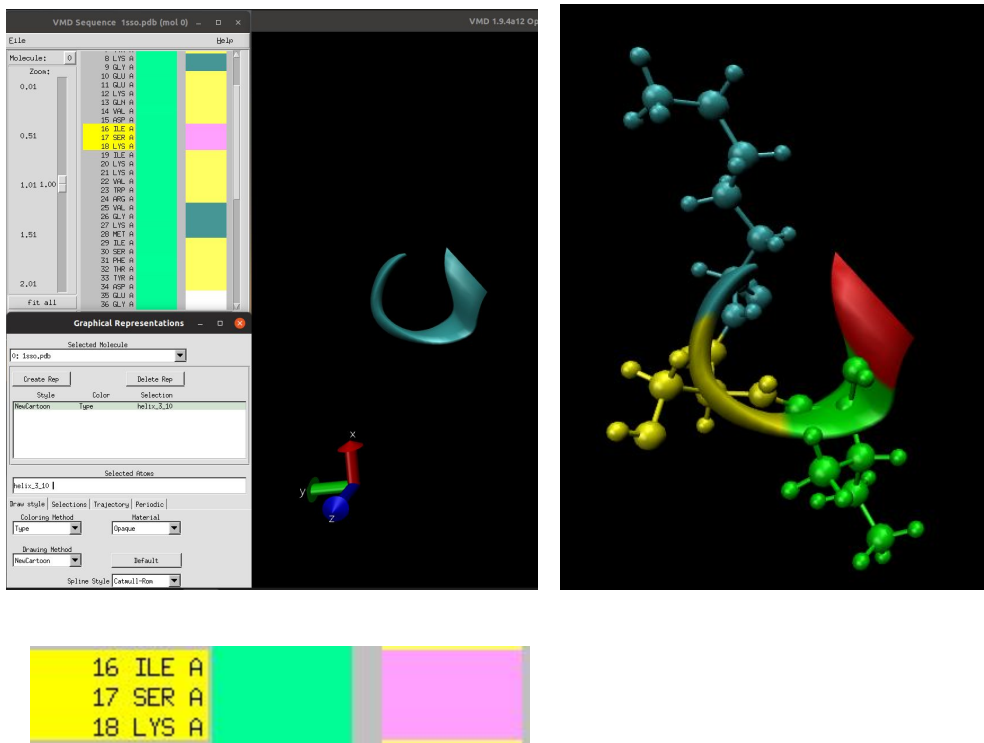
Q2: pi Helix



Protein: 1GAI

The pi helix from the 1GAI protein can be seen. The residues (x5) involved in its formation have been found, selected and viewed from the sequence viewer. Red colour (I) denotes pi helices in the protein.

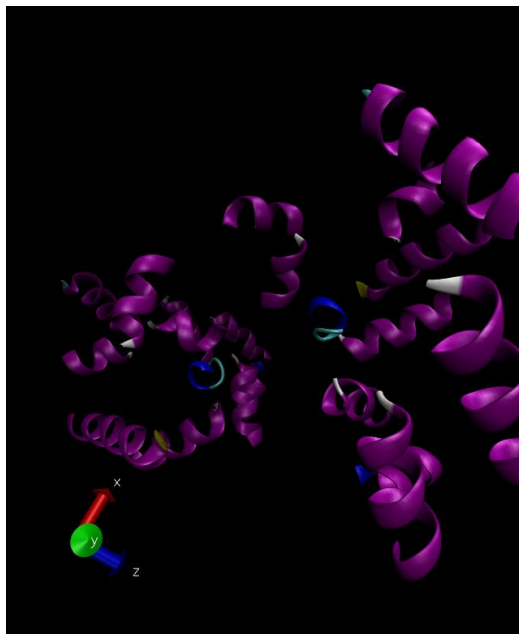
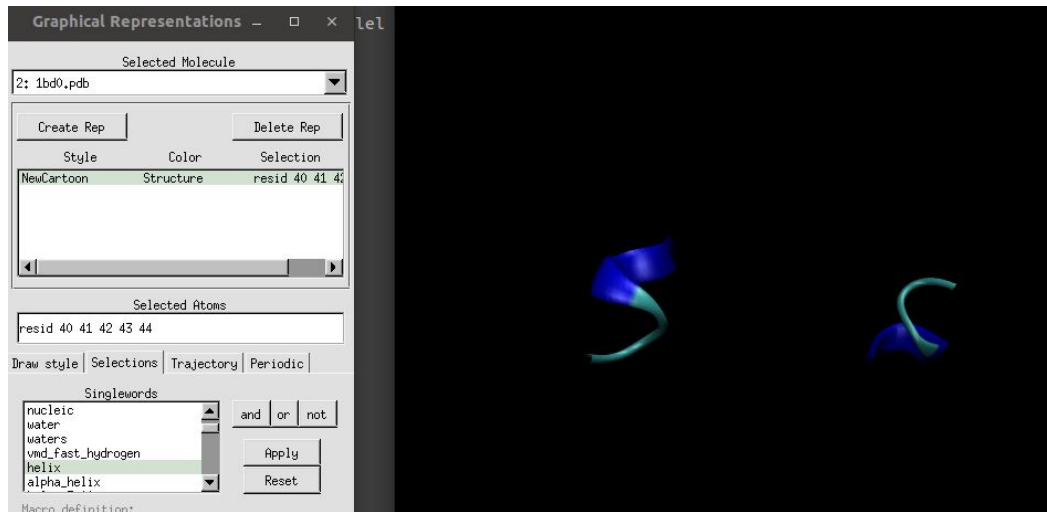
Q3: 3₁₀ Helix



Protein: 1SSO

The 3₁₀ helix from the 1SSO protein can be seen. The residues (x3) involved in its formation have been found, selected and viewed from the sequence viewer. Pink colour (G) denotes 3₁₀ helices in the protein.

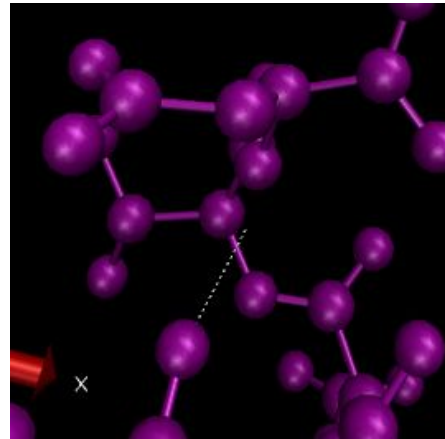
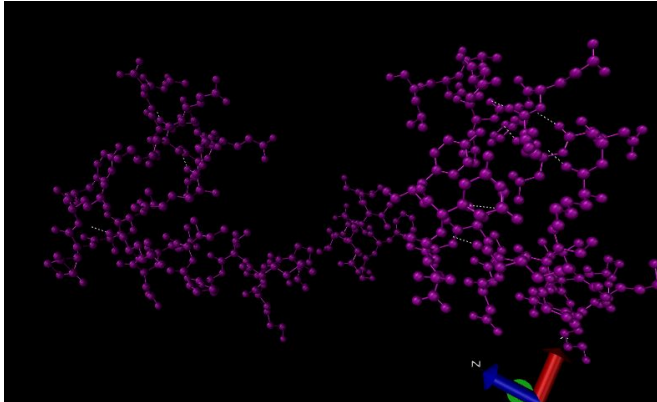
Q4: Left handed Helix



Protein: 1BD0

The left handed Helix and be viewed for Residue ID's 40-44 in this protein. The alpha helices are purple in colour with dark blue for left handed ones.

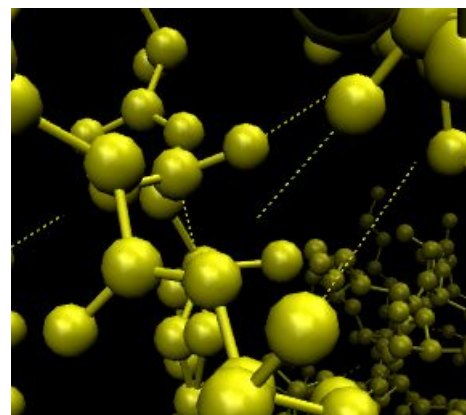
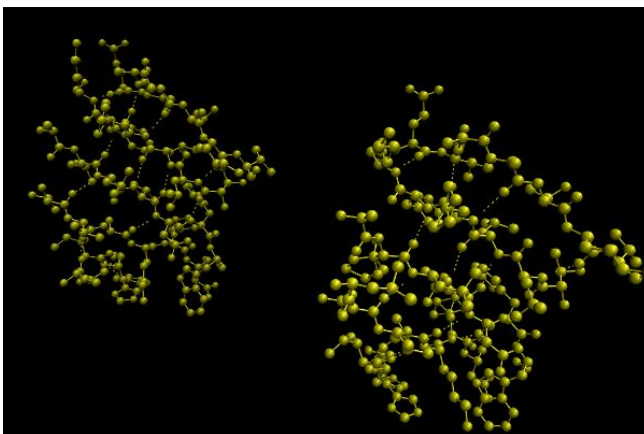
Q5: Hydrogen bonding in Alpha Helix, Parallel Beta Sheets and Antiparallel Beta Sheets



Alpha Helix

Protein: 2TRX

Purple colour denotes the alpha helix structure and the white dotted lines denote the hydrogen bond.



Beta sheets

Protein: 2TRX

Yellow colour denotes the Beta sheets structure and the yellow dotted lines denote the hydrogen bond.