

Name:

Date:

# WP3 – PyMOL Worksheet

Using the features available in PyMOL, answer the following questions about these proteins:

Human obesity protein, leptin

2m6z

1grj

1ubq

1. What is the PDBe code for the 'human obesity protein leptin'?
2. Looking at the secondary structure for this protein, how many  $\alpha$ -helices are there?
3. What is the main form of non-covalent bonding which gives the protein its overall structure?
4. What would happen to the shape and structure of the protein if this bonding wasn't present?
5. What would happen to the effectiveness of the protein to perform its function if this bonding wasn't present?
6. Looking at 2m6z, how many polypeptide chains are present?
7. Does this protein have a quaternary structure?

