

BIOL 6312

Proteins

11 April 2005

Your Final Project will consist of two parts: a paper and a Jmol tutorial

The Jmol tutorial will be presented orally to the class Thursday May 5 from 11:30 to 2:30 in Room 130. Each student will have about 15 minutes.

Your Jmol tutorial should have 10 views of one or more proteins. You might use more than one pdb file, since you might need to compare similar proteins, or to show a protein with and without a ligand bound. You might also show mutated or truncated forms of a protein. The 10 views could be shown on 10 different pages, or you can use the 3-button pages, or a page with 2 views shown side-by-side. You should include adequate text to explain the views, so that your project can be used by someone else for self-study. The tutorial should have an introductory Table of Contents page. You need to provide references to the Protein DataBank and to PubMed.

The project files should be delivered to me by email, CD-ROM, or flash drive by Thursday May 5. I will do technical troubleshooting for you beginning Monday May 2, to make sure that the pages work.

The paper will be due by class time May 5. It should be 1600-2000 words. It could describe recent studies of a protein, or a group of related proteins, or it could highlight an experimental approach. You should use several literature sources, which are properly referenced in the paper. It can incorporate figures from other sources, or ones that you create. Please provide me with a hard copy of, or an internet link to, the primary reference. The paper should contain some intellectual input on your part, and not merely be a recounting of results. For example, you might point out where evidence is weak, or what new experiments could be done.

The paper can be delivered by email, or by hard copy.