

20 April 2010 Protein Bioinformatics

PDF of lecture slides at course site:

<http://www.biostat.jhsph.edu/~iruczins/teaching/260.655/>

Suggested reading:

Protein Structure and Function, Petsko, Ringe [35-53\$]  
Most of Chapter 5

Structural Bioinformatics, Bourne, Weissig [60-74\$]  
Chapters 4+5

Biomolecular Crystallization, Bernhard Rupp [90-140\$]

### **Objectives.**

1. Describe the growth of protein structures in the Protein Data Bank
2. Define 'structural genomics' and its primary goal
3. Identify the general steps in NMR and x-ray crystallography
4. Describe the pros and cons of NMR and x-ray crystallography
5. Understand the contents of the PDB file header