

Biology 321 Spring 2012 Assignment Set #6 9th edition

➔➔ Required Reading and Problem Assignments in Introduction to Genetic Analysis 9th edition

Chapter 1: Review Section 1.2 The Molecular Basis of Genetic Information

Chapter 2: Review Sections 2.1 (Genes and Chromosomes)

Chapter 7: DNA structure and replication: Browse through pgs. 265-281 and read sections 7.2 & 7.3 carefully. **Read through solved problems 1 & 2. Work problems 1, 3, & 28**

Chapter 8: Review RNA structure and Transcription: read pgs 295-302 & 308-310 (about splicing). Look carefully at figures 8-2, 8-3, 8-4 & 8-5. 8-6 & 8-7. **Work problems 12, 13 & 14**

Chapter 9: Review nuts and bolts about proteins and the genetic code: read pgs. 319-330. **Read through Solved problems 1 & 2. Work problems 1, 2, 3, 7, 22, 27**

Chapter 15: Mutation, Repair and Recombination Read pages 513-517; 520-529. [Browse through **Section 15.4 on DNA repair mechanisms**. You should be aware that DNA repair systems exist and that normal function is critical to limiting the rate of spontaneous and induced mutation but we will not cover this material in lecture.] **Work problems 1, 2, 3, 4, 6, 7, 8, 16, 19, 23, 29**

Cancer: an important phenotypic consequence of somatic mutation

- Chapter 15 Section 15.6
- Chapter 16 Figure 16-2 & pgs. 555-556
- Chapter 7: Browse through section 7.7 on telomeres