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Review Sheet for Exam Two

(last updated: November 6, 2014)

A) Lecture Notes:

One - Biology: All slides except: 7,9,10,11,22,25,26, 29-32,39-41,51-52, 84-92.

Two - Bioinformatics: All slides except: 7,9,11,20-24,27,29,36-41,47-64.

Three - Pairwise Sequence Alignment: All slides except: 65 and 66.

Four - Multiple Sequence Alignment: All slides except: 28-30 and 32.

Five - The Big Jaw: All slides except: 6 and 7.

Six - HIV: All slides except: 4,11-12,21-22,24-26,29-48.

Seven - Next Generation Sequencing: All slides.

B) Hands-On Exercises:

Number	Topic	For the Exams
One	Traits	Not included
Two	Transcription-Translation	ALL - Problems 1,2,3,4, and 5
Three	Interesting Problems	ALL - Problems 1,2, 3, and 4
Four	Sample GenBank Record	ALL - Problems 1 and 2
Five	Investigating Inherited Disease	Parts A, B, C, and D (all parts except 13)
Six	Comparing beta glob	All - Parts A, B, and C
Seven	Beta Thalassemia	All - Part A, B, and C
Eight	Multiple Sequence A	Problems 1, 2, and 3
Nine	BRCA1 - Part One	Problems 1 to 12
Ten	BRCA1 - Part Two	Problems 20,21,22,30.

C) Homework Exercises:

HW	Num	For the Exams
HW	One	All - Problems 1, 2, 3, 4, 5 ,6, 7, and 8

HW	Two	Problems 1 and 3.
HW	Three	Problems 1 (not 10,12,18), 2, 3, and 4.
HW	Four	Problems 1 (not 5(c,d,e,f)), 2, 3, 4, 5, and 7.

D) The textbook:

Chapter 1: See Reading Guidelines.

Chapter 2: See Reading Guidelines. Skim through the chapter.

Chapter 3: See Reading Guidelines.

Chapter 4: See Reading Guidelines up to and including Section 4.7.

E) Everything we covered in class