

Study Guide for Exam 2 Genetics

Below are the "Learning Outcomes" listed in the lecture schedule that I hope everyone in the Genetics course will master. You need to have "working knowledge" of this material to do well on exams as you already know. By working knowledge, I mean that you need to understand the underlying processes and ideas so that you can apply these to real problems now and into the future, not just memorize some information.

I will remind you below each outcome some of the key items that we covered for each. Please note that the list of topics below is not exhaustive and that you are responsible for everything that we have covered in class since Exam 1 and through Monday March 18 unless otherwise notified.

Know the process of recombination and how it is used to locate genes that influence phenotypes on chromosomes.

Chapter 5:

- While the epistasis discussed in Chapter 4 involves the physiological interaction of genes and their products, these interactions do not violate any of Mendel's postulates/rules. Chapter 5 however discusses a different type of gene interaction, a physical one, linkage, that does violate Mendel's postulate of independent assortment.

- The discovery of linkage, genes present on the same chromosome often violate Mendel's postulate of Independent Assortment because alleles of genes from the same chromosome are embedded in the same piece of DNA and stick together during Anaphase I of Meiosis.

- Morgan discovered this in *Drosophila* and found genes linked with the sex chromosomes. Punnett and Bateson discovered this in plants with genes for flower color and pollen shape.

- Understand the terminology and the procedures used to calculate recombination frequency using **standard 2-point crosses** (individuals segregating for two genes). While one can analyze two genes in many different types of crosses, you are only responsible for understanding how this is done in **test crosses** (a cross between an individual segregating for two genes and one that is homozygous recessive for those two genes). Be capable of analyzing data to determine if genes are linked (this could involve testing with χ^2 to see if the observed data fit expectations) and at what distance. Also, know how to predict gamete and offspring ratios given specific crosses.

- We do not cover **3-point crosses** any more since no one really uses that procedure these days but there is some basic and important information at the start of that section that you should understand, such as the criteria for successful mapping and an understanding that multiple crossovers can occur between any two points on a chromosome.

- We also do not cover some other old historical techniques mentioned such as cell hybridization.

We do cover modern tools for locating the genes that affect traits such as **Recombinant Inbred Lines (RILs)** or **pedigree mapping populations** and **Genome Wide Association Studies (GWAS)**. Understand how to interpret different dominance or recessive inheritance patterns in humans using pedigrees; identify patterns associated with autosomal or X-linked (or Y linked) inheritance.

Genetics Spring Final Exam Study Guide

Michael Hoelscher



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