

BIO61 – Human Heredity
6/24/13

Student Learning Objectives

By the end of this class you should understand the following:

- The purpose and nature of dihybrid crosses
- How to calculate the probability that an unaffected person may be a carrier for a disorder
- What a rare-allele assumption is for
- Identify examples of chromosomal linkage

Support videos:

- Khan Academy
 - <http://www.youtube.com/watch?v=-ROhfKyxgCo>
- Dihybrid Crosses
 - <http://www.youtube.com/watch?v=cvTt-azvHsA>
- MIT Open Courseware
 - <http://ocw.mit.edu/courses/biology/7-01sc-fundamentals-of-biology-fall-2011/genetics/pedigrees/>

Vocabulary:

- Probability
- Monohybrid cross
- Dihybrid cross
- Homozygotic cross
- Heterozygotic cross
- Homozygotic x Heterozygotic cross
- Rare allele assumption
- Chromosomal linkage