

BIO/MOLBIO2C03 Practice Problem 4

Questions for content that is included on Midterm1

1. Consider two genes that have an epistatic interaction. A dominant wildtype allele at both genes produce a pigment that makes bird feathers blue. If either of these genes is homozygous for a recessive mutant allele, then this gene does not produce pigment. But as long as the other gene can produce pigment (because it is not homozygous for the recessive mutant allele), then the bird will still be blue. But if both genes do not produce pigment (because they are both homozygous for the recessive mutant allele), then the bird is white. If you performed a dihybrid cross between two individuals that were (by definition) both heterozygous for a wildtype and mutant allele at both genes, what proportion of blue and white offspring would you expect?
2. Consider a bird where three dominant alleles at different genes cause Blue head (B), Red hands (R), and Green feet (G). When homozygous, recessive alleles at each of these loci lead to gray head (bb), gray hands (rr), and gray feet (gg). A trihybrid bird with the three dominant traits is crossed to a bird that is completely gray. 1000 offspring are generated with the following offspring phenotypic counts where the offspring phenotypes are listed in this order: head, hands, feet:

Phenotype	Number
Blue,Red,Green	204
Blue,Red,gray	212
Blue,gray,Green	36
Blue,gray,gray	40
gray,Red,Green	44
gray,Red,gray	46
gray,gray,Green	198
gray,gray,gray	220

Total: 1000

- a. Is there evidence of genetic linkage between the Red and Blue, Blue and Green, or Red and Green loci? If so, between which pairs is there strong evidence of linkage (as inferred from the numbers of offspring and not statistics)?
 - b. If there is evidence of linkage, please calculate the recombination frequency between the linked genes using the offspring numbers
 - c. Irrespective of your findings above, if none of these genes were linked, could all three of them be on the same chromosome?
3. Imagine you performed a dihybrid cross of two pea plants where both parental individuals are heterozygous at the A and B locus (AaBb). Please assume that there are no epistatic interactions between these loci. A dominant allele at the A locus makes peas yellow and a homozygous recessive allele at this locus makes green peas. A dominant allele at the B locus makes peas round and a homozygous recessive allele at this locus makes wrinkled peas.
 - a. What is the expected phenotypic proportions of offspring produced by this cross?

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Daniel F McAuley



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