
Mastering Biology Chapter 14 Study Guide

Look at the Punnett square, which shows the predicted offspring of the F₂ generation from a cross between a plant with yellow-round seeds (YYRR) and a plant with green-wrinkled seeds (yyrr). Select the correct statement about wrinkled yellow seeds in the F₂ generation. - answerThe chance that an individual taken at random from the F₂ generation produces wrinkled seeds is 25% and the chance that the same individual produces yellow seeds is 75%.

Quantitative characters vary in a population along a continuum. How do such characters differ from the characters investigated by Mendel in his experiments on peas? - answerQuantitative characters are due to polygenic inheritance, the additive effects of two or more genes on a single phenotypic character. A single gene affected all but one of the pea characters studied by Mendel.

Select the correct explanation for the fact that a carrier of a recessive genetic disorder does not have the disorder. - answerAffected individuals have recessive mutations, but a carrier has a dominant mutation.

Each chromosome in this homologous pair possesses a different allele for flower color. Which statement about this homologous pair of chromosomes is correct? - answerThese homologous chromosomes represent a maternal and a paternal chromosome.

When a dominant allele coexists with a recessive allele in a heterozygote individual, how do they interact with each other? - answerThey do not interact at all.

Part A: What is the genotype of the man? - answerI A i

Part B: What is the genotype of the woman? - answerI B i

Part C: What is the genotype of the child? - answerii

Part D: What genotypes would you expect in future offspring from this marriage? Select all that apply. - answerii

I A i

I B i

I A I B

Biology Chapter 14 Section 2 Study Answers

Mark Steyvers



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