

# HUMAN PEDIGREES

By studying a human pedigree, you can determine whether a trait is dominant or recessive. To interpret the three pedigrees below, use the same key shown at the right. Of course, the individual with the trait could be homozygous dominant or heterozygous dominant.



A. The pedigree shows the inheritance of attached earlobes for four generations.



Is the trait for attached earlobes, versus free earlobes, dominant or recessive?

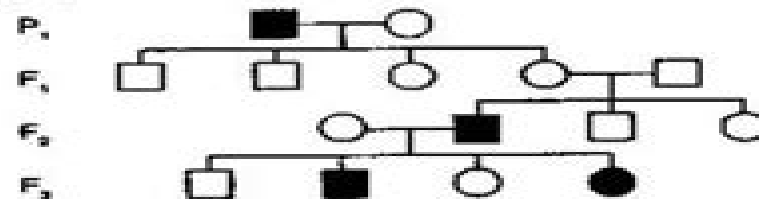
\_\_\_\_\_ How do you know? \_\_\_\_\_

B. The pedigree shows the inheritance of tongue rolling.



Is this trait dominant or recessive? \_\_\_\_\_ Explain. \_\_\_\_\_

C. This pedigree shows the inheritance of colorblindness, a sex-linked trait.



Is this trait dominant or recessive? \_\_\_\_\_ Is the mother of the colorblind girl in the F<sub>3</sub> generation colorblind, a carrier, or a person with normal color vision?

\_\_\_\_\_ Explain. \_\_\_\_\_

# Genetics Introduction Answer Key

**Spencer C. H. Barrett, Robert I.  
Colautti, Katrina M. Dlugosch, Loren H.  
Rieseberg**

## **Genetics Introduction Answer Key:**

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