Suppose a woman has a mosaic pattern of skin, with some patches lacking sweat glands. She inherited a functional allele for sweat glands from one parent and a nonfunctional one from the other parent. On what chromosome are these alleles located?

A  X chromosome

B  Y chromosome

C  chromosome 13

D  chromosome 21
This mosaic pattern occurs as a result of random inactivation of a female’s X chromosome.

Answer A.

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