

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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