



evropský
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EVROPSKÁ UNIE



MINISTERSTVO ŠKOLSTVÍ,
MLÁDEŽE A TĚLOVÝCHOVY



OP Vzdělávání
pro konkurenceschopnost

INVESTICE DO ROZVOJE VZDĚLÁVÁNÍ

PRACOVNÍ LIST

Výukový materiál GE 02 - 52	Název: CHROMOSOMAL INHERITANCE
Tvůrce: Mgr. Šárka Vopěnková	Tvůrce anglické verze: ThMgr. Ing. Jiří Foller
Projekt: S anglickým jazykem do dalších předmětů	Registrační číslo: CZ.1.07/1.1.36/03.0005
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EXAMPLE 1:

Father and son are colour-blind, while the mother distinguishes colors normally. Is it right, when we say that son has inherited this hereditary defect of sight from his father?
The recessive allele, conditioning daltonism, lies in the non-homologous segment of chromosome X.

EXAMPLE 2:

A daughter of a colour-blind father has married a man whose father was also colour-blind.
However, neither the woman nor the man suffer from daltonism.
What will their children be like?
The recessive allele, conditioning daltonism, lies in the non-homologous segment of chromosome X.

Example 3:

- A blue-eyed man, whose parents both have brown eyes, married a girl who has brown eyes and whose father was blue-eyed, while his mother was brown-eyed.
- Their only child so far has brown eyes.
- What are the genotypes of the child, the parents and all the grandparents, if you know that brown eye colour is dominant over blue?