

Pedigrees

15. According to pedigree #1, what is the mode of inheritance of this genetic disorder?

- Does it skip a generation?
- Are there carriers?
- Only female carriers?
- More men affected?

yes *no*
~~Recessive or dominant~~
~~Recessive or dominant~~
~~Sex-linked or autosomal~~
~~Sex-linked or autosomal~~

- a) What is the genotype of person U?
- b) What is the genotype of person X?

Aa *aa*
autosomal
recessive

16. According to pedigree #2, what is the mode of inheritance of this genetic disorder?

- Does it skip a generation?
- Are there carriers?
- Only female carriers?
- More men affected?

~~Recessive or dominant~~
~~Recessive or dominant~~
~~Sex-linked or autosomal~~
~~Sex-linked or autosomal~~

- a) What is the genotype of the affected male in generation 3?

- b) If the parents in the first generation had another child, what are the chances that this child will have the disease?

Dad: XAY
mom: XAXA
0%

- c) If the parents in generation 2 had a daughter, what are the chances she will have the disease?

mom: XAXA
dad: XAY
0%

17. According to pedigree #3, what is the mode of inheritance?

- Does it skip a generation?
- Are there carriers?
- Only female carriers?
- More men affected?

~~Recessive or dominant~~
~~Recessive or dominant~~
~~Sex-linked or autosomal~~
~~Sex-linked or autosomal~~

- 1. The dad in generation 1 is heterozygous. If these parents had another child, what are the chances the child will also have the disease?

dad: Bb
mom: bb
50%

Mutations

18. What is a mutation?

change in DNA code → new protein made

19. What is a nondisjunction mutation?

- a. How does it happen?

chromosomes don't separate properly

- b. How is the centriole involved?

↳ job to pull chromosomes apart during anaphase of meiosis

- c. How does it lead to diseases such as Down syndrome (Trisomy 21)?

extra chromosome # 21

- d. How is it different from deletion, insertion, inversion, or substitution mutations?

you don't change the chromosome, but you have an entire extra chromosome or are missing one

20. Describe/draw how each of the following mutations would change a chromosome:

- a. Deletion

delete bases

- b. Insertion

add bases

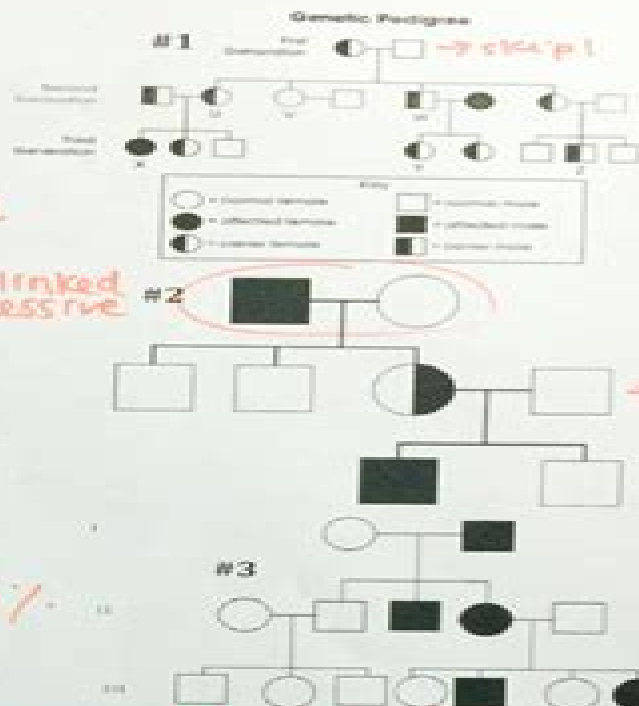
- c. Inversion

backwards

- d. Translocation

swap DNA

STILL MORE QUESTIONS ON THE BACK!! YOU'RE ALMOST DONE!! YAYYYYYY!



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DP Hallahan



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