

Pedigree Worksheet **KEY**



1. Which members of the family above are afflicted with Huntington's Disease? **II1, II2, II3, II7, III3**
2. There are no carriers for Huntington's Disease- you either have it or you don't. With this in mind, is Huntington's disease caused by a dominant or recessive trait? **Dominant**
3. How many children did individuals I-1 and I-2 have? **6**
4. How many girls did II-1 and II-2 have? **2** How many have Huntington's Disease? **1 or 5**
5. How are individuals III-2 and II-4 related? **Uncle/Niece** I-2 and III-5? **Grandma/Grandson**

6. The pedigree to the right shows a family's pedigree for Hitchhiker's Thumb. Is this trait dominant or recessive? **Recessive**

7. How do you know? **III1 and III2 do not have it but their children do.**

8. How are individuals III-1 and III-2 related? **Cousins/Marriage**

9. How would you name the 2 individuals that have hitchhiker's thumb? **IV1 and IV3**

10. Name the 2 individuals that were carriers of hitchhiker's thumb. **III1 and III2**

11. Is it possible for individual IV-2 to be a carrier? **Yes** Why? **b/c parents were heterozygous**

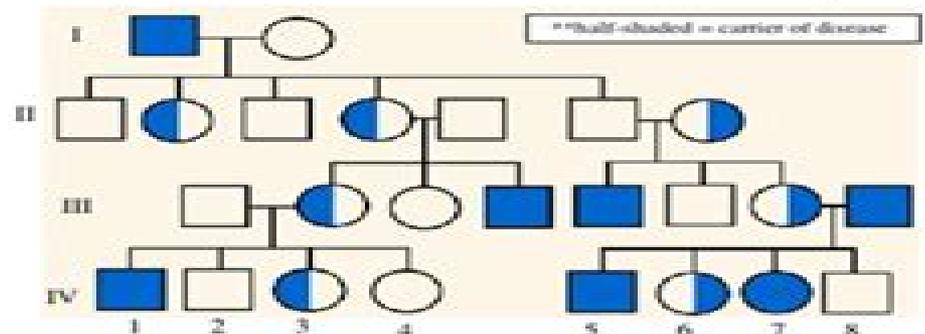
12. The pedigree to the right shows a family's pedigree for colorblindness. Which sex can be carriers of colorblindness and not have it? **Females**

13. With this in mind, what kind of trait is colorblindness (use your notes)? **Sexlinked/recessive**

14. Why does individual IV-7 have colorblindness? **b/c mom was a carrier and dad was affected**

15. Why do all the daughters in generation II carry the colorblind gene? **b/c dad was affected and its on the X**

16. Name 2 IV generation colorblind males. **IV1, IV5**



Genetics Pedigree Worksheet 1 Answer Key

Ying Liu



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