

**Supplemental Reading***WHEN A GENE MAKES YOU SMELL LIKE A FISH*

Name: \_\_\_\_\_

1. Why do people with TMAU smell?
2. What is alkaptonuria, and how does it affect the body?
3. List three pros and three cons related to genetically testing children for PKU.
4. What are the founder effect and genetic drift, and how do they relate to maple syrup urine disease?
5. Describe why the levels of cholesterol for people who live on Tangier Island are different from the general population.
6. What is the Celtic Curse, and how does it relate to the concept of penetrance?
7. What are co-factors? What is the relationship between Wilson's disease and Menke's disease?
8. Describe pleiotropy.
9. What are the symptoms of Marfan syndrome? What causes Marfan?
10. Describe heme and blood circulation in both normal people and people who carry the "Dracula" gene.
11. Explain how protein mis-folding can lead to Huntington's disease.

12. Why do more males than females have hemophilia?
  
13. How does fragile X syndrome affect nerve cells?
  
14. How does faulty genetic control (ability to turn genes on and off) lead to “Werewolf” disease?
  
15. What is the connection between the “Cue Ball” gene and baldness?
  
16. Describe X-inactivation and the role of Barr bodies in the creation of a calico cat.
  
17. Does genetics have any influence on language ability? What evidence is there that it does or does not?
  
18. Describe why obese people have a higher risk of developing diabetes.
  
19. Does genetics have any influence on athletic ability? What evidence is there that it does or does not?
  
20. Describe the genetics of aging, with reference to DNA replication and telomeres.
  
21. Did you like this book? Why or why not?
  
22. What did you learn about the scientific process by reading this book?