

CRACKING THE CODE OF LIFE QUESTIONS

Please go to www.missimpson.com and on the 'Life & Living' page select "Cracking the code" program. Alternatively, you can go straight to the website <http://www.pbs.org/wgbh/nova/genome/heredity.html> to view the program.

As you watch, please answer the following questions:

1. What % of genes in a banana are found in us? _____
2. How many more genes do humans have than fruit flies? _____
3. How long did they predict it would take to decode the human genome? _____
4. What does Tay Sachs disease do to a babies' brain? _____
5. Who does a child get the gene for Tay Sachs from? _____
6. Where did Craig Venter grow up? _____
7. What was slowing down the government teams? _____
8. By early 2000, how many base pairs/sec were rolling out? _____
9. How many times were the fundamental mechanisms for life worked out on this planet? _____
10. Why doesn't work get done on certain regions of DNA molecules? _____
11. Are genes one-dimensional or 3-dimensional? _____
12. What do genes do – basically? _____
13. What was every week like at Solaris? _____
14. How many of the 17 children have arthritis? _____
15. What are the "guys in the funny suits" making? _____
16. BRCA mutations cause what percentage of breast cancers? _____
17. What would most changes we make to DNA today do to the machine? _____
18. What do you come away from reading the genome realizing? _____
19. What can "we and we alone do"? _____