

Name: _____

Class period: _____

Listen to, or watch, David Sanders's podcast and answer the questions below:

Video: <https://bit.ly/SOSSanders>

Audio only: <https://bit.ly/LibsynSanders>

Questions:

1. What are two types of nucleic acids?
2. What are two examples of genetic diseases?
3. What is significant about a retrovirus?
4. Why is the virus that David's group modified with a protein found on the Ebola virus ideal to use for patients being treated for cystic fibrosis?
5. Describe the "mix and match viruses" that David speaks about.
6. What is the green fluorescent protein technology?
7. What is one fundamental technique that students working in David's lab need to be aware?
8. How quickly does a typical cell that David's lab studies divide? How quickly does a bacterial cell that might introduce contamination into David's lab divide?
9. During gel electrophoresis, will the smaller molecules of a protein slide through the gel's electric field slower or faster than larger molecules?
10. Describe an example of scientific bias.