

Cornell Guided Notes

Principles of Biomedical Technology (Principles of Biomedical Science) | 2026-10-14

Name

Period

Date

Lesson

Lesson focus

Ethics of genetic data

Key words and questions

Prepared details and student notes

Essential question
What is today's target?

Debate whether genetic test results should be shared with relatives, and defend your view.
Big idea: Genetic information is unique because it is partially shared: a result about one person is simultaneously a partial result about their biological relatives.

My notes, examples, and questions

Key words
What vocabulary unlocks the lesson?

- DNA
- chromosome
- gene
- allele
- protein
- transcription
- translation
- mutation

My notes, examples, and questions

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Cornell Notes - Continued

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Must-know ideas

What should I understand by the end?

- GINA (Genetic Information Nondiscrimination Act) prohibits discrimination in health insurance and employment based on genetic information, but does not require disclosure to relatives.
- A patient's genetic risk information may have medical relevance for first-degree relatives (parents, siblings, children), creating a tension between individual privacy and family benefit.
- Genetic counselors are healthcare professionals who help individuals and families understand and navigate the implications of genetic test results.

My notes, examples, and questions

Process notes

What happens during class?

- 0:00: Hook: brief description of a real case where a patient refused to share a hereditary cancer result with their family
- 0:10: Introduce GINA; contrast genetic privacy with the concept of shared genetic heritage
- 0:20: Read the ethics prompt; list one argument for disclosure and one for individual privacy
- 0:32: Small-group debate: connect position to the nature of shared genetic information
- 0:54: Individual CER writing: position, evidence, reasoning
- 1:10: Share two CERs; preview Tuesday DNA-to-protein content

My notes, examples, and questions

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Steps and evidence What do I do and turn in?

- Read the prompt: If your DNA reveals a risk, do relatives have a right to know?
- List one argument for disclosure and one for individual privacy.
- Choose a side and connect it to shared genetic information.
- Argue your claim in your group with one reason and one example.
- Post a written CER with your position and reasoning.

Evidence: CER - Written CER (3-5 sentences) arguing whether genetic test results should be shared with relatives, with a reference to the shared nature of genetic information in the reasoning.

My notes, examples, and questions

Checks for understanding How do I know I got it?

- I can weigh genetic privacy against relatives' interests.
- I can defend a position with reasoning.

My notes, examples, and questions

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Lab or safety notes
What must I handle carefully?

Supplies:

- DNA-to-protein modeling kit or paper nucleotide cutouts
- Codon (amino acid) chart
- Chromosome and gene diagram
- Colored markers for base pairing
- Lab notebook for the model and mutation trace

My notes, examples, and questions

Summary

Today's lesson focused on Ethics of genetic data. The main target was: Debate whether genetic test results should be shared with relatives, and defend your view. The evidence of learning is CER: Written CER (3-5 sentences) arguing whether genetic test results should be shared with relatives, with a reference to the shared nature of genetic information in the reasoning.. In my own words, the most important idea from today is:

My summary

My final question or connection