

Cornell Guided Notes

Genetics of Disease (Medical Interventions) | 2027-04-06

Name

Period

Date

Lesson

Lesson focus

Germline editing debate

Key words and questions

Prepared details and student notes

Essential question
What is today's target?

Argue a CER position on whether germline gene editing should ever be permitted in humans. Big idea: When a genetic edit passes to every future generation, who gives consent on behalf of the people not yet born?

My notes, examples, and questions

Key words
What vocabulary unlocks the lesson?

- gene therapy
- vector
- CRISPR-Cas9
- somatic
- germline
- off-target
- informed consent

My notes, examples, and questions

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Cornell Notes - Continued

Key words and questions

Prepared details and student notes

Must-know ideas
What should I understand by the end?

- Germline edits affect egg, sperm, or embryo cells and are inherited by all descendant cells and future generations.
- Somatic gene therapy edits only the patient's non-reproductive cells; the change is not heritable.
- The 2018 He Jiankui case (CRISPR-edited embryos in China) illustrates real-world consequences of unsanctioned germline editing.

My notes, examples, and questions

Process notes
What happens during class?

- 0-5: Hook: He Jiankui summary; frame debate question
- 5-20: Silent read of germline editing case brief; draft two contrasting questions
- 20-35: CER draft: claim on permissibility, two evidences, reasoning naming consent
- 35-65: Structured debate: permit-under-strict-conditions vs. absolute prohibition
- 65-75: Written reflection: state one counterargument about future-generation consent
- 75-80: Post CER and reflection to course shell

My notes, examples, and questions

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Cornell Notes - Continued

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Steps and evidence What do I do and turn in?

- Read the germline editing case brief in the course shell.
- Write two prepared questions contrasting somatic and germline editing risks.
- Draft a CER with a claim, two pieces of evidence, and your reasoning about heritable edits.
- In the debate, note one counterargument about consent of future generations.
- Post your CER and reflection in the course shell.

Evidence: CER - One CER on whether germline gene editing should ever be permitted, plus a reflection naming one counterargument about consent of future generations.

My notes, examples, and questions

Checks for understanding How do I know I got it?

- You'll be able to argue a position on germline editing with evidence.
- You'll be able to address the consent problem in your reasoning.

My notes, examples, and questions

Lab or safety notes What must I handle carefully?

No special lab safety notes today. Follow normal classroom and digital-work expectations.

My notes, examples, and questions

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Cornell Notes - Continued

Summary

Today's lesson focused on Germline editing debate. The main target was: Argue a CER position on whether germline gene editing should ever be permitted in humans. The evidence of learning is CER: One CER on whether germline gene editing should ever be permitted, plus a reflection naming one counterargument about consent of future generations.. In my own words, the most important idea from today is:

My summary

My final question or connection