

Cornell Guided Notes

Genetics of Disease (Medical Interventions) | 2027-03-23

Name

Period

Date

Lesson

Lesson focus

Methods quiz

Key words and questions

Prepared details and student notes

Essential question
What is today's target?

Demonstrate mastery of PCR, restriction enzymes, gel electrophoresis, and microarrays on the methods quiz. Big idea: Can you choose the right molecular tool for a given diagnostic question and explain why?

My notes, examples, and questions

Key words
What vocabulary unlocks the lesson?

- primer
- restriction enzyme
- gel electrophoresis
- microarray
- hybridization
- marker

My notes, examples, and questions

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Cornell Notes - Continued

Key words and questions

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

- PCR amplifies a targeted sequence; gel separates amplified fragments by size; microarray surveys genome-wide expression simultaneously.
- Knowing which method to use requires matching the question (one gene? many genes? size of fragment?) to the method's output.
- Molecular and Genetic Technology is the largest domain on the WebXam 072130; mastery here directly targets it.

My notes, examples, and questions

Process notes
What happens during class?

- 0-20: Review PCR diagram, gel table, and method comparison; address questions
- 20-55: Take genetic testing methods quiz in course shell independently
- 55-70: Write one-sentence correction for one missed or uncertain item
- 70-78: Audit testing-methods unit tracker; confirm all benchmarks green
- 78-80: Submit quiz and correction note; teacher confirms unit complete

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?

- Review your PCR diagram, gel interpretation, and method comparison from this week.
- Take the genetic testing methods quiz in the course shell.
- For one missed or uncertain item, write a one-sentence correction.
- Submit the quiz and your correction note for the week-end summative.

Evidence: WebXam practice - Completed methods quiz plus a one-sentence correction for one missed or uncertain item.

My notes, examples, and questions

Checks for understanding How do I know I got it?

- You'll be able to identify the right method for a given testing goal.
- You'll be able to interpret PCR and gel results under assessment.

My notes, examples, and questions

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Cornell Notes - Continued

Key words and questions

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Lab or safety notes
What must I handle carefully?

Supplies:

- Agarose gel and casting tray
- Gel electrophoresis chamber with power supply
- Micropipette and tips
- Loading dye and DNA size ladder
- TAE or TBE running buffer
- Safety goggles and nitrile gloves

My notes, examples, and questions

Summary

Today's lesson focused on Methods quiz. The main target was: Demonstrate mastery of PCR, restriction enzymes, gel electrophoresis, and microarrays on the methods quiz. The evidence of learning is WebXam practice: Completed methods quiz plus a one-sentence correction for one missed or uncertain item.. In my own words, the most important idea from today is:

My summary

My final question or connection