

Cornell Guided Notes

Genetics of Disease (Medical Interventions) | 2026-11-10

Name

Period

Date

Lesson

Lesson focus

Molecule-to-patient case packet

Key words and questions

Prepared details and student notes

Essential question
What is today's target?

Trace one patient's path from a molecular test result to a clinical decision using validity and reliability. Big idea: How does a molecule-level measurement become the clinical fact a doctor acts on?

My notes, examples, and questions

Key words
What vocabulary unlocks the lesson?

- molecular diagnosis
- validity
- reliability
- false positive
- false negative
- treatment plan

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?

- Validity: a test measures what it claims to measure (e.g., the SNP associated with the disease, not a random marker).
- Reliability: the test gives the same result on repeated runs with the same sample; low reliability means low clinical confidence.
- Clinical decisions cascade from molecular evidence: a single unreliable result can lead to unnecessary treatment or missed diagnosis.

My notes, examples, and questions

Process notes
What happens during class?

- 0-8: Hook timeline; define validity and reliability with one clinical example each
- 8-25: Open case packet; list each test and its molecular output
- 25-45: Annotate validity and reliability for each test in the margin
- 45-60: Write one sentence on which result most influenced the clinical decision
- 60-72: Partner check: verify annotations are using the terms correctly
- 72-80: Submit annotated case packet 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?

- Open the synthesis case packet in the shell and read the patient's test history.
- List each test the patient received and what molecular evidence it produced.
- Mark where validity (right thing) and reliability (consistent result) mattered for each test.
- Write one sentence on which result most influenced the clinical decision.
- Submit your annotated case packet as your daily evidence.

Evidence: Notebook check - Annotated synthesis case packet: each test listed with its molecular output and validity/reliability label, plus one sentence on the most influential result.

My notes, examples, and questions

Checks for understanding How do I know I got it?

- You'll be able to trace a patient from molecule to clinical decision.
- You'll be able to apply validity and reliability to real tests.

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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Summary

Today's lesson focused on Molecule-to-patient case packet. The main target was: Trace one patient's path from a molecular test result to a clinical decision using validity and reliability. The evidence of learning is Notebook check: Annotated synthesis case packet: each test listed with its molecular output and validity/reliability label, plus one sentence on the most influential result.. In my own words, the most important idea from today is:

My summary

My final question or connection