Cornell Guided Notes

Principles of Biomedical Technology (Principles of Biomedical Science) | 2026-10-20

Name	Period	Date	Lesson
		2026-10-20	

Lesson focus

Submit diagnosis evidence

Key words and questions	Prepared details and student notes

Essential question
What is today's target?

Submit your transcription-translation model and mutation analysis CER to the unit tracker. Big idea: A complete DNA-to-protein packet traces the molecular chain from a single base change in DNA to a potential clinical diagnosis, demonstrating the power and limits of the central dogma.

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

Key words and questions	Prepared details and student notes
Must-know ideas **What should I understand by the end?**	- A submitted transcription-translation model must show both the original and mutated sequences to be a valid comparison; without both, the change cannot be evaluated. - The mutation variable must be identified explicitly: which base position changed, from which nucleotide to which nucleotide. - Self-assessment at the end of this unit is also an assessment of your understanding of the central dogma: can you trace each step from DNA to protein to disease? **My notes, examples, and questions**
Process notes **What happens during class?**	- 0:00: Project the tracker checklist; walk through each required item - 0:10: Work time: upload transcription-translation model (original and mutated sequences); verify mutation variable is labeled - 0:28: Work time: upload Thursday CER; verify sequence evidence is cited and a diagnosis connection is stated - 0:45: Confirm mutation variable and model limitations are documented - 0:58: Self-assessment form: check each success criterion; flag any item not fully met - 1:08: Course-closing reflection: in one sentence, how does the central dogma connect a genetic mutation to a medical diagnosis? **My notes, examples, and questions**

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Steps and evidence **What do I do and turn in?**	- Review the tracker checklist for decoding-a-diagnosis deliverables. - Upload your transcription and translation model. - Attach your mutation analysis CER. - Confirm the mutation variable and limitations are documented. - Self-assess against success criteria and flag gaps. Evidence: Tracker entry - Complete DNA-to-protein packet: transcription-translation model with original and mutated sequences labeled, Thursday CER with sequence-comparison evidence and diagnosis connection, mutation variable and limitations documented, and self-assessment form. **My notes, examples, and questions**
Checks for understanding **How do I know I got it?**	- I can submit a complete DNA-to-protein packet. - I can verify my work against a checklist. **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 Submit diagnosis evidence. The main target was: Submit your transcription-translation model and mutation analysis CER to the unit tracker. The evidence of learning is Tracker entry: Complete DNA-to-protein packet: transcription-translation model with original and mutated sequences labeled, Thursday CER with sequence-comparison evidence and diagnosis connection, mutation variable and limitations documented, and self-assessment form.. In my own words, the most important idea from today is:

My summary

My final question or connection