

Lab Protocol: Module 12 — Gene Expression

BIOL-1

Name: _____ Date: _____

Lab Title

[To be determined]

Overview

This lab protocol is a stub and will be developed with detailed procedures, materials, and safety information.

Learning Objectives

- Describe the central dogma of molecular biology
- Model transcription and translation processes
- Understand the genetic code and codon usage
- Analyze the effects of mutations on protein synthesis
- Connect gene expression to cellular function

Estimated Duration

2-3 hours

Materials Needed

[To be listed]

Safety Considerations

[To be listed]

Procedure

[To be developed]

Data Collection

[To be developed]

Analysis Questions

[To be developed]

Conclusion

[To be developed]

Note: This is a placeholder document. Complete lab protocol to be developed.