

113 Lab Learning Objectives

Week 7: synthetic lab #6

Learning Objectives for Promoter Discovery

Skills

- Produce graphical data for oral and written presentations.

Cognitive

- Employ a scientific approach to answering biological questions and test hypotheses.
- Analyze experimental data and reach logical conclusions.
- Synthesize experimental results for oral and written presentations.

Week 7: Information and Natural Selection lab #3

Learning Objectives for Environmental Information and Natural Selection

Skills

- Clean and concentrate PCR product
- Prepare DNA for sequencing.
- Use ApE software to analyze DNA sequences.

Cognitive

- Employ a scientific approach to answer biological questions and test hypotheses.
- Analyze experimental data and reach logical conclusions.
- Connect environmental information to evolution using lab experiment as example.
- Explain what TAS2R38 has to do with taste and natural selection.
- Describe how DNA is sequenced using PCR product as template.