

113 Lab Learning Objectives

Week 15: Information and Evolution Lab #7

Learning Objectives for Bacterial Evolution

Skills

- Communicate complex scientific information effectively through oral presentation.
- Avoid common mistakes of oral presentations using iBOP Bingo.

Cognitive

- Employ a scientific approach to answering biological questions and test hypotheses.
- Describe the big idea of evolution based on lab experiences.
- Explain how antibiotic resistant bacteria can appear quickly in the population.
- Design directed evolution process to select antibiotic resistant bacteria.
- Formulate an hypothesis how antibiotic resistant bacteria evolve outside the laboratory.
- Propose a mechanism that allows bacteria to evolve rapidly when exposed to antibiotics.