

Week 11-13: Continued Experiments

Materials Used in Lab

- Picking materials and microscopes, including one with fluorescence capabilities to aid in genotyping transgene-containing worms during the genetic cross
- 60 mm standard nematode growth medium (NGM) plates seeded with OP50 *E. coli* (for routine maintenance)
- 20°C incubator (to store plates students pick to – maintenance should now be twice per week)
- Rubber bands and markers (for wrapping and labeling plates)
- Materials for worm lysis, PCR, and gel electrophoresis
- Other materials needed depending on experiments planned by each group

Instructor Preparation

- Materials and plates listed above
- Worms from student genetic crosses in progress

Student Activities

- Maintain needed strains (done twice per week)
- Freeze mutant strains and any crossed strains for long-term storage at -80°C or in liquid nitrogen
- Continue your planned experiments with transgenic and/or mutant worms
- Update lab notebook, making sure to collect all necessary images and data for the final lab write-up

Week 14: Wrap-up and Presentations

Materials Used in Lab

- Materials needed depending on remaining experiments planned by each group

Instructor Preparation

- Materials depending on group needs

Student Activities

- Jigsaw style oral presentations
- Work with your group on the final lab write-up