Week 9 (Lab 9)                                      LESSON PLAN LB144 Fall 2024

(Luckie will not be in lab anymore since he does Prof Interviews during lab, you are in charge)

**Today** -> Making gels, loading gels with tiny bit of your purified genomic DNA, running gels. ALSO last chance for identifying PCR primers (but can also just help another group with theirs and that is still 4.0-level). If a student wishes to OPT-out of 4.0 grade for the LB144 course, they may depart and do observations of humans but must come back to "show and tell" at Xpm.

**Prep**: Get real stuff for gels. Actual 20X LB stock buffer, actual SYBR-SAFE dye, actual bromophenol blue loading dye. DNA ladders. Get glassware/supplies for making and running gels. Open the Attendance & BUMP point sheet.

**ATTENDANCE (learn names)**O   Take attendance– eventually, work on also using last names and thus learning how to pronounce them too

**ANNOUNCEMENTS**

*Last call for Primers ASAP, write researchers for animal DNA samples, view movies on D2L about making gels and performing PCR as a resource. Prof Interviews begin, Verbal Status Report talks are next week (recording movie due Sunday night) just like Luckie's email to you said.* ***Here's some of what his email said****.*

*1. TEST: The exam average for the class was 95% (those bump points + smart groupmates help!). We do the "group test" so you get a chance to debrief the exam, as well as learn how smart your group members are, and maybe decide to study with them even more for the next test.*

*2. TALKS: Members from six groups signed up to participate in the Verbal Status Report that will occur on Halloween Eve in lab (Wednesday, October 30th). Just like the Proposal Talk, your team creates a video of the talk in advance (due Sunday, Oct 27th, 10 pm, send link to Luckie) and then in lab, we flip a coin to determine if you do the talk in person or show your movie. Yet this talk you get 10 minutes. See page 139 Cpack.*

*Be aware this is a Status Report thus should discuss all the research that has been accomplished up to now. Goal is to update the figures make them much closer to Final versions. The best approach is to use the figures from your group's Half-Draft paper but update them. All geese data should be real not predicted (geese gone) and the PCR gel figure should be about YOUR gene and your Primers so the band size should match what your PCR product should be. Slides should be just the big figure itself with no additional text around it, except you can have a very brief legend with 1-2 sentences.*

*Email Luckie for photos of your graded Half-Draft figures, he's still grading papers but can provide those to anyone participating in the Verbal Status Report talk.*

*3. PROF: The "Prof Interviews" will start this week, and will occur every Monday and Wednesday (during lab class times) each week until December. You do the interview with another student, answer 10 questions from the list AND get homework. You will (soon) be contacted by Luckie to learn your assigned day. If you want to go earlier by yourself, let him know.*

**"OK, now the two students who go at (1-2pm or 4-5pm) slot head down to Luckie's office for your Prof Interview."**

Groups can do:

**Gels (make, load, run, photograph, analyze), use Nanodrop, and Design PCR Primers "last call"**

**"OK, now the two students who go at (3-4pm or 5-6pm) head down to Luckie's office for your Prof Interview." Likely this is signaled when prior students return from Luckie's office having completed their interviews.**

**DEPARTURE CHECKLIST** (**With 10-15 minutes remaining start these**)

* + Make sure students clean up their lab areas.
	+ **BUMP points time**