**Lesson Outline: Restriction Enzyme Digests**

November 4, 2022

1. Prepare uncut DNA samples and load agarose gels (Estimated time: ~30 mins).
2. Discuss and demonstrate use of the Nanodrop (Estimated time: ~15 mins).
3. Review restriction enzymes lecture slides (Estimated time: ~15-20 mins).
   1. See file “RestrictionEnzymeLecture.pptx” for slides and notes.
4. Complete the paper restriction enzyme activity (Estimated time: ~20 mins).
   1. Exercise 1: Labeling the parts of a gel.
   2. Exercise 2: Ordering fragments based on size.
   3. Exercises 3.1 and 3.2: Cutting DNA and comparing biological samples.
   4. Students will turn in these exercises for feedback and a completion grade.
5. Visualize gels (Estimated time: ~15 mins).