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Make Transgenic fly lab

- 1. (1 pt) You must submit a screen shot of your successful mutant flies at the end of the "Make Transgenic fly lab". This screenshot will be submitted to a Discussion after completing the lab. When submitting the worksheet please answer: Where you successful in your experiment? What went wrong?
- 2. (0.5 pts) What gene are you attaching to the *period* gene to visualize when transcription occurs? Which organism does this gene come from?
- 3. (0.5 pts) What key molecular "tool" is used to create the construct of per/luc genes that will jump into the *Drosophila* genome?
- 4. (0.5 pts) How will we know if the construct has incorporated into the *Drosophila* genome?
- 5. (1 pt) **Complete part A** of Performing a sequence analysis in the "Make Transgeneic lab" to confirm that the correct *period* gene is incorporated into the plasmid construct. In the BLAST sequence, what color means a good match? What chromosome is *period* gene found in Drosophila?

Testing Transgenic flies

- 1. (0.5 pts) About what time of the day does the fly have peak luciferase expression?
- 2. (0.5 pts) Does the Per gene continue to oscillate regardless of external light/dark cues?
- 3. (0.5 pts) What time did the peak luciferase expression become after the shift in light/dark cycle?



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