

Reading: “Neotropical forest birds can measure the slight changes in tropical photoperiod” by Hau et al. (1998)

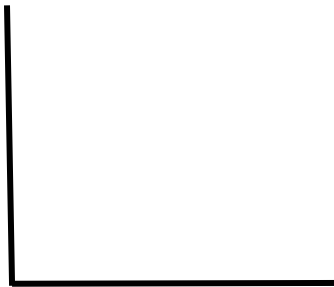
In this paper, Hau et al. (1998) conducted two experiments in antbirds to assess their ability to perceive and respond to changes in photoperiod. They measured two physiological changes (gonad size and androgen concentration) and one behavioral change (singing). Work together with your group to answer the following questions in reference to your assigned experiment (one or two).

Experiment number: _____

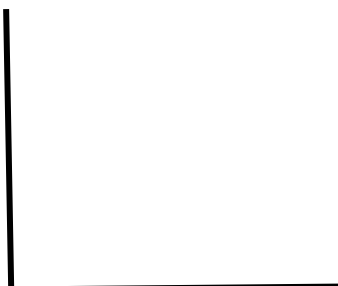
1. What were the author’s predictions for the experiment?

2. Using these predictions, draw how the control and experimental groups should differ in each of the 3 measurements if a) the predictions are supported, and b) the predictions are *not* supported. Be sure to label your axes.

a. Prediction supported:



b. Prediction *not* supported



3. What did the authors find? Do their results support their predictions? How do their results compare to your own graphs?

4. What do their findings tell us about the role of photoperiod in tropical species?