

Good Evening Group Members,

Orit and I went to the fly lab today and I wanted to share with everyone how we recorded the data and what we will be doing each time we go to the lab. First, we created a sign-in sheet on page 3 of the composition book (page 3 assuming we only use the front sides of the pages and not the backs of each page). Please make sure that you record your name and the date on the sign-in page each time you work in the fly lab. Second, we labeled all of the vials. The original parents are in vials 1b#1 and 1b#2 (1b#2 is the one where I caused the substrate at the bottom to skew against the side). The other vials are labeled vials 3-7 and they will contain F1 that will mate and eventually produce F2.

As of right now, vials 3 and 4 are filled with F1 flies. When you go into lab this week:

1. Sign-in in the composition book.
2. Check Vials 1b#1 and 1b#2 to see if any flies have eclosed (the fly has come out of its larva state and now has wings).
3. Knock all of the flies onto the CO₂ pad one vial at a time. Examine and record each fly's gender and associated phenotype.
4. When you have recorded all of the flies, you will need to transfer them to new vials. Each new vial should have 10 or so flies. Please make sure both genders are present in the vials. Vials 3 and 4 are full so you will need to start with a new vial. If you don't have enough to fill two new vials, you can fill one and put the rest in another vial and make a note that it is not full in the composition book on the page you used to record the flies' phenotypes. I'm sorry if it sounds complicated. Basically, we are trying to get 5 vials (3-7) with 10 or so F1 flies in each vial. After the 5 vials are full, we will still record (and immediately kill) the F1 flies from vials 1b#1 and 1b#2 until 9/25/15 when we will kill the entire two vials.
5. When you add flies to a vial, record the gender/phenotype of flies added. You can look at how Orit and I did it in the composition book for an example if you like.
6. When you put flies into a new vial, mark the date at the top of the label.
7. In each vial 3-7, if the vial already contained flies (F1), check them to see if any pupae are visible. This should not occur until about 4-5 days after they are put into the vials. Once pupae are visible, mark that date on the label under "1st pupa" and kill all of the adult flies from the vial.
8. In each vial 3-7, if the parent generation (F1) has already been killed, check to see if any flies have eclosed from their larva state. This should not occur until approximately 10 days after the parent flies (F1 in this case) were placed in the vial. If new flies have eclosed, they will be F2 generation. At that time, mark the date on the "1st eclosed" part of the label and then put the date ten days later under the "kill" section of the label. For each F2 fly, record its gender and associated phenotype and then kill it. After the kill date, we will kill the entire vial.

If you have any questions, don't hesitate to ask me via e-mail or by text.