REPRODUCTION LAB: PLANARIAN REGENERATION

Final Observation and Cleanup

1. Make final observations; sketch each piece, giving date and indicating clearly which part of the original planarian each of your NEW regenerated planarians started from, and which piece formed an additional piece later on (if any did). Staple your drawings behind this sheet.

2. How many pieces did you and your partner produce when your original planarian was cut?____

3. Did any of your pieces die?____ If so, which one(s) and when?

4. Did you or your partner cut a second planarian?____ If so, when?____. In which dish were the 2 pieces put: "HEAD" dish? "TAIL" dish? One or two new dishes?

5. Did you or your partner discover any new pieces? If so, when?____ In which dish (Head or Tail) was the new piece discovered?____

6. How many living pieces do you and your partner (together) have now?____

7. Indicate for each original piece what its regeneration status is now:
   (S="starting" to regenerate; H=about half regenerated; F=fully regenerated)
   Head:____ Tail:____ Others:_______ ________ ________

8. Some people did find one or more extra new live planarian pieces. Where, in those cases, do you think the extra pieces came from? List as many reasonable possibilities as you can, then circle the ONE which you think is the most likely source. Think creatively; discuss with your partner.

9. How does the new growth generally differ in appearance from the original piece (especially as it is developing)?

10. Do the planarians resulting from regeneration appear to be normal?____ Explain:

CLEAN UP:

1. Using toothpick, brush, or cotton swab, gently dislodge planarians so they float free of the dish, then immediately pour them into one of the large collection beakers provided at the front of the room. They will be given a nice big liver dinner, then used for behavior or other regeneration studies, and eventually be returned to a local creek.

2. Remove the labels from the dishes, wad them up and discard in wastebasket. Using wet paper towel, wipe dish clean, then dry it inside and out, and stack it upside down in the white porcelain tray.