Arabidopsis seed sowing protocol:

Arabidopsis sowing
https://www.youtube.com/watch?v=WlBfGs28yOk

Soil Preparation
1. Tray preparation: 12x5 flat tray with the rectangle tray underneath
2. Prepare soil: use Suremix, moist with water
3. Fill the square little pots with soil, and put the pots into the 4x8 tray
4. Bring the tray cover together with the filled trays to BSP

Agarose preparation
5. Make 0.1% agarose in water, can be done in a microwave

Seed sowing
**Important: Please don’t mix the seeds**
6. Find the right size of gloves, take a pair
7. Label the tray in front of you:
   a. EMS# S# T# S19
   b. DATE
8. Check how many vials of seeds you have in front of you: WT(1), PLIP3 OX(1), EMS (1)
9. Label Petri dishes with marker: WT, PLIP3 OX, EMS
10. Label the pots have soil inside:
    a. Two pots: WT
    b. Two pots: PLIP OX
    c. Others: Don’t need to label every pot now, but put some labels to help you identify the EMS
11. Use P1000 to take 1 ml of agarose into the petri dish
12. Pour the seeds into the agarose, and mix well by gentle mixing
    **Important:** keep the seeds from different vials separated, DON’T mix the seeds
13. Cut the smaller pipet tips (P200 tips) with scissor
14. Use P200 (adjust to 50ul) to suck 1 seed up each time
    **Important:** Change pipet tips when you start seeding from a new vial, this will avoid the cross contamination in case there are seeds stuck in the dropper or tip.
15. Drop the seed at the center of each quarter area of the pot, each pot will have 4 seeds
16. Repeat until you finish all the pots
17. Use beaker beside the sink to pour some deionized water into the tray, this will help the soil to keep moist
18. Cover with plastic tray with the dome
19. Put the tray into 4C in the back of the lab for vernalization
20. In 3 days come to the lab to take the plants to light shelves.

**Note:**
   a. You will need to come to water your plants until we are done with the experiments
b. Arabidopsis might need to water twice per week: you can water them during the class, but you will need to come in to water them on Fridays