# Sowing Arabidopsis Seeds

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## **Sowing Arabidopsis seeds**

#### **Materials:**

2 ml Microfuge tubes
Arabidopsis seed
Kord Lok square 2.5" pots (12-1250-1)
Kord Lok 32 pocket tray (12-6990-1)
White display trays (Hummert 11-3305-1)
Clear humidity dome (Hummert 12-7066-1)
Seedling labels vinyl (Hummert 49-08001-1)
Redi Earth Plug and Seedling mix (Hummert 10-2030-1)
1/2 strength Hoaglands

#### **Procedure:**

- Place # of seeds you will need in an empty 2 ml microfuge tube
   \*\* A little goes a very long way here \*\*
- 2. Fill tubes up with dH<sub>2</sub>O or 0.1% Agrarose solution (the agarose can help separate seeds in Pasteur pipette)
- 3. Label tubes and cover with aluminum foil, place at 4°C for 2 to 3 nights to ensure uniform germination
- 4. Mix Redi Earth potting soil and water in a tray, make sure to break up clumps of soil so that soil density is even between pots
- 5. Fill pots with wet soil, leave about 1 cm free at the top of the pot so when we water the water does not just run off the surface of the soil. Try to keep soil density even between pots
- 6. Place pots in tray and place labels in pots
- 7. With a glass Pasteur pipette or a 200  $\mu$ l standard pipette, pipette at least 3 seeds onto the surface of each container
- 8. Place in growth chamber (light < 150  $\mu$ mol m<sup>-2</sup>s<sup>-1</sup>) with humidity dome on top until germinated
- 9. When plants are ≈1 week old thin to desired density using forceps and a beaker of water
- 10. Water carefully and every other time use 1/4 strength Hoaglands (dilute 1/2 strength headland by haf)

### 0.1% Agrarose Solution

In 100 ml dH<sub>2</sub>O +

0.1 g Agaraose

0.2 Autoclave for 20 – 30 minutes, allow to cool then use