

# Seed protocol

Marie-Pierre L. Gauthier, May 14, 2014

## Harvesting:

- Wait until the capsules are dry but not opened yet.
- Put one capsule per 1.5ml eppendorf tube with the tag number in the tube.
- Store at room temperature. (I left my samples in my desk drawer.)

## Getting the seeds:

- Carefully remove the brittle husk from the capsule
- Make sure no seeds are attached to the husk inspecting the debris under the dissecting scope.
- Put a round filter paper in the cover of a petris dish (it should fit perfectly)
- Wet the paper with diH<sub>2</sub>O
- Put the seed capsule on the wet paper.
- Using small forceps split the capsule open in two half by gently pressing on the capsule seam.
- Put two halves seeds side down on the paper and wait 5 min for them to get wet.
- With the forceps, under the dissecting scope scrape the seeds out of the capsule onto the paper.
- Under the scope remove all plant debris leaving only the seeds on the wet filter.
- Using a squirt bottle use some water to spread the seeds around the paper filter.
- Cover the petri dish with the bottom half left (the final product will be and upside down petris dish)

## Counting the seeds:

- Put the closed petris dish on the colony counter.
- With a sharpie count the seeds by marking on the lid of the dish.

## Germination:

- Put the petris dishes in the growth chamber for a week
- Water every day as needed

## Germination count:

- Open the petris dish and remove excess of water with kim wipes.

- Put the opened petris dish on the colony counter
- Using a sharpie on the filter paper count the seedlings.

Seeds count proxy:

- Carefully remove the husk from the capsule.
- Carefully remove the peduncle from the capsule.
- Using a micro scale weigh the capsule.
- A range of small to big capsule should have their seed manually counted to build the standard curve.
- Example of results:

