

# Hydroponic culture of Arabidopsis thaliana

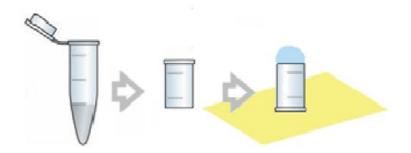
nathalie.vanhoudt@sckcen.be



## Agar seed beds

Seed beds are made from 1.5 mL Eppendorf tubes and placed upside down on a

strip of paper adhesive tape



Tubes are filled with autoclaved0.6% agar solution



## Hydroponic containers

 When solidified, seed beds are positioned in a lid capable of holding 36 plugs and then placed on a hydroponic container filled with modified Hoagland solution





#### Seed vernalization and sowing

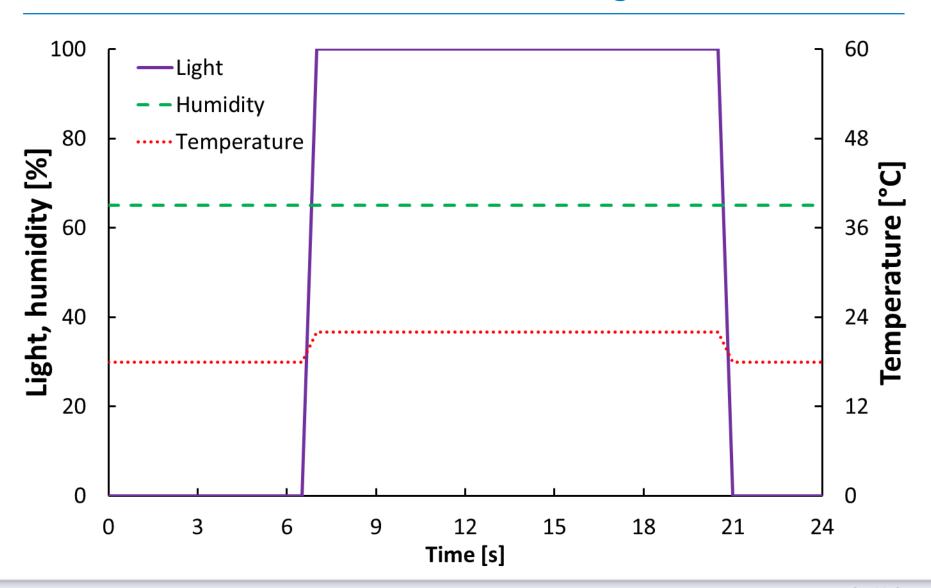
 A. thaliana seeds were placed on moist filter paper at 4°C for 3 days in the dark in order to synchronize germination



 Afterwards, 2 seeds were sown on each agar seed bed

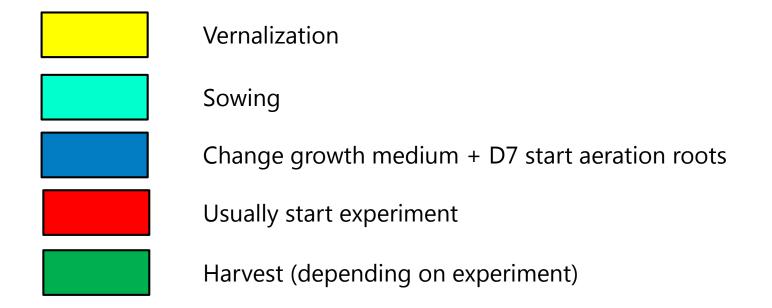


### Settings climate chamber



#### Time schedule

Week 0					Day 0
Week 1					Day 7
Week 2		Day 10		Day 13	
Week 3		Day 17			

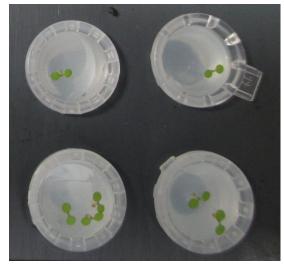


### Follow up

At day 7 thin the seedlings out until you have one seedling per seed bed



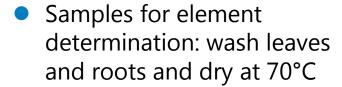
• At day 7 inset tubes for aeration





#### Harvest

 Harvest leaves and roots separately and weigh them



 Samples for molecular analyses: quick-freeze in liquid nitrogen and store at -80°C





