

Plant progression 0930:

- A. Pre-treatment Bopep4 and TB(for control) (0930 incubator plates)
 - B. Redid Buffer vs. ACCD 2 plates experiment (both added 100mM NaCl)
 - C. Added 100mM NaCl to soil ACCD salinity testing groups
 - D. Took out (0930 incubator) vertical(10x) and horizontal plates(14x)
- (Done by Abby T)

1001 forecast:

- A. Co-treatment Bopep4 + 75 and 100mM NaCl to horizontal plates
- B. Sow 12x soil pots (LEA and ACCD salinity)
- C. Take vertical heat stress plates out from incubator
- D. Vernalize 12x 0.6% horizontal plates

1002 forecast:

2. Spray post treatment ACCD on both no and yes heat stress vertical plates
3. spray cotreatment and NaCl for bopep4 agar testing
4. Add 200mM NaCl to soil ACCD testing groups
5. Take pics and water soil(for the 0922 ones if the soil is alr wet don't water but for 10/1 water all the pots from bottom)

1003 forecast:

1. collect chlorophyll and fresh weigh data of Buffer vs. ACCD (both with 100mM NaCl stress) testing(take final picture with ruler besides the circular plate with no lid)
2. collect chlorophyll and fresh weights data for agar 0917 incubator salinity ACCD testing group(take final picture with ruler besides the circular plate with no lid)
3. Remake 3M NaCl stock in ddH₂O
4. Cotreatment and salinity on bopep4 group
5. Pretreatment of 0926 incubator group(ACCD trial 2)
6. Stratify 12 circular round plates and 4-5 plates of vertical

1003 progression:

1. Collected chlorophyll, freshweight, and relative gene expression data for agar 0917 incubator salinity ACCD testing group
--> will be doing MDA and total protein (inside -86°C)
done by Abigail, AbbyT, Gina
2. Collected chlorophyll, freshweight data for 0906 two paper comparison soil pots
done by Abby T, Abigail
3. Added co-treatment Bopep4 and 75,100mM NaCl (2ml drench application as master mix, same goes for pretreat and posttreat --> protectant:1/2MS medium = 1:1
done by Abby T
4. Stratified 14 circular round plates and 4 plates of vertical (both prof.cheng's seeds)
done by Gina

1004 Forecast:

1. Bopep4 post-treatment (1ml of 1/2 MS medium + 1ml of protectant --> can make it in a master mix first)
2. Add 300mM NaCl to 0912 ACCD salinity soil pots
3. Stratify 18x circular (3 for individual bopep4 pretreat --> so we have n=2 as we align method to drench not spray)
4. Dry 0930 agar in the bsc

5. collect ACCD heat stress data

1007 progression:

1. collected freshweight data for bopep4 vs buffer (froze in -80°C for chlorophyll extraction tmr)-> ACCD plate heavily contaminated-> wait for data comparison
2. Sprayed ACCD pretreatment and TB no plasmid supernatant on soil groups(2 trials of heat stress) w/ vitamin

1008 progression:

1. Make 400mL 1% agar for 8 vertical agar plates for transfer
2. Transfer prof cheng plants in vertical plates to the 8 plates and spray pretreatment
3. Pretreat lea 0930 horizontal plates
4. Chlorophyll extraction of bopep4 and buffer testing already in -80°C
5. Soil ACCD heat stress 2 trials place into incubator + co-treatment

1009 progression:

1. Sprayed ACCD w/plp to soil heat stress co-treatment (both trial 1&2) + placed heat stress groups into incubator (8pm)
2. Began LEA salinity stress test on agar (pre-treatment) (8pm)
3. Transferred seedlings from (0930 incubator) plates to newly made 8 vertical agar plates —> for accd heat stress repeat
4. Collected Bopep4 salinity testing fresh weight

1010 forecast:

1. take pics (both don't add water!)
 - i. 0922 soil pots 15x (include heat groups in incubator)
 - ii. 0928 soil pots after distributing seedlings 12x
2. Pick out similar sizes seedlings from 0928 incubator soil pots and distribute into 12 pots (6x for LEA salinity; 6x for accd salinity -> repeat) + both spray pre-treatment
3. Spray pre-treatment accd to heat stress vertical plates
4. Collect chlorophyll data (inside -80 fridge)
 - i. Soil ACCD salinity (5x) + (5x for anthocyanin measurement)
 - ii. Agar Bopep4 salinity (12x)
 - iii. buffer vs ACCD (2x)
5. Spray TB to control, LEA co-treatment, +75, 100mM NaCl (6-7pm)

1010 progression:

1. take pics
 - i. 0922 soil pots 16x (heat stress groups trial 1 and 2, continue leaving in 37°C incubator)
2. Spray pre-treatment accd to heat stress vertical plates (5pm)
3. Collect chlorophyll data (entered data into the chlorophyll content for wiki doc)
 - i. Soil ACCD salinity (5x)
 - ii. Agar Bopep4 salinity (12x)
 - iii. buffer vs ACCD (2x)

4. Spray TB to control, LEA co-treatment, +75, 100mM NaCl (5pm)

1011 forecast:

1. Spray co-treatment ACCD to heat stress trial #2 and place into incubator for thermo priming for 3 days
2. Spray after-treatment LEA to exp #11 salinity stress testing agar plates
(noticed a lot of mold growing again, already eliminated the extra plate that was in consideration of contamination)
3. take pics
 - i. 0922 soil pots 16x (heat stress groups trial 1 and 2, continue leaving in 37°C incubator)
4. Soil ACCD salinity (5x) anthocyanin measurement
5. Agar Bopep4 Salinity total protein, MDA, and relative gene expression measurement

1011 progression:

1. Spray co-treatment ACCD to heat stress trial #2 and place into incubator for thermo priming for 3 days
2. Spray after-treatment LEA to exp #11 salinity stress testing agar plates
3. take pics
 - i. 0922 soil pots 16x (heat stress groups trial 1 and 2, continue leaving in 37度 incubator)
4. Agar bopep4 Salinity Elisa concentration

1012 progression:

1. take out soil heat stress trial 1 and 2 from incubator into growth chamber for recovery period

1014 forecast:

1. take pics of
 - 1) ACCD heat stress vertical plates
 - 2) ACCD heat stress soil pots
 - 3) LEA salinity stress horizontal plates
2. Spray pre-treatment to ACCD salinity stress test horizontal plates (repeat) + take pics
3. Drench 2ml pre-treatment to Bopep4 salinity (1ml 1/2 ms medium + 1ml bopep4 / 2ml 1/2 ms medium to other groups) + take pics
4. Take ACCD vertical heat stress plates out of incubator

1015 forecast/progression:

1. take pics of
 - 1) ACCD heat stress vertical plates
 - 2) ACCD heat stress soil pots
 - 3) LEA salinity stress horizontal plates
 - 4) ACCD salinity repeat horizontal plates
 - 5) Bopep4 salinity stress plates
 - 6) Bopep4 salinity stress redone pre-treatment
2. Spray co-treatment and NaCl to ACCD salinity stress horizontal plates (repeat) + take pics
3. Drench 2ml co-treatment to Bopep4 salinity (1ml 1/2 ms medium + 1ml bopep4 / 2ml 1/2 ms medium to other groups, 2mL extra NaCl to NaCl groups) and redone pre-treatment groups
4. Add post-treatment to heat stress trial #2 ACCD testing