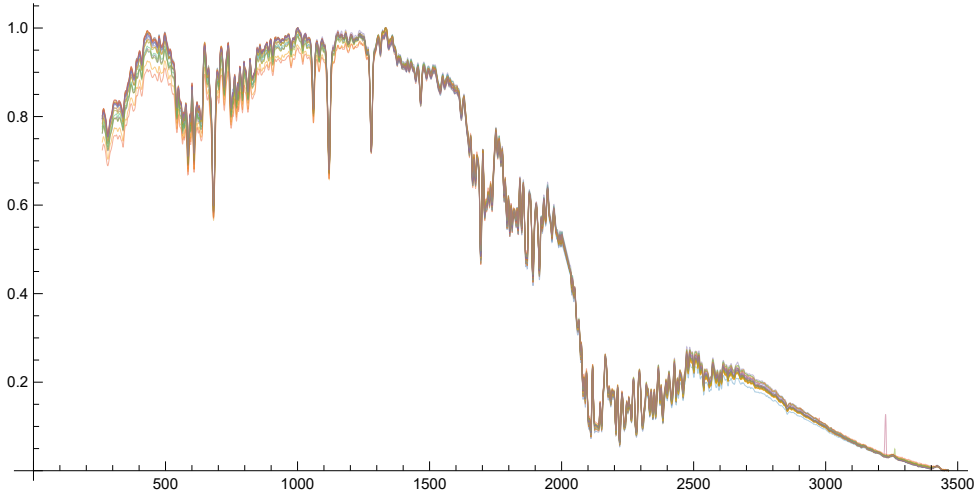
26–February

We decided to characterize the placenta and seed parts of the fruit by performing ~20 inspections on the control and experimental groups.

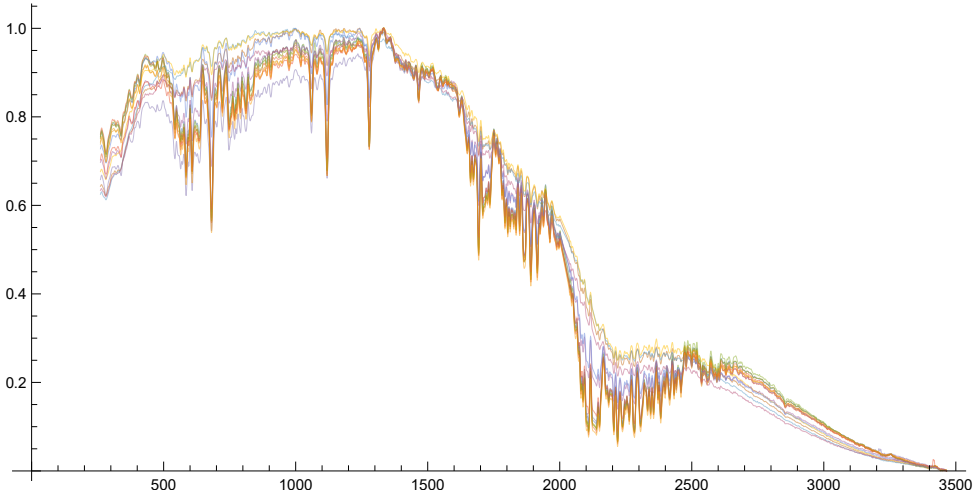
- The placenta is profile is quiet reproducible
- For an infected pepper, inspecting part of the placenta that in the un–aided seems healty, i.e. placenta not in the proximity of rot tissue, almost no difference can be observed comparing to the control group (*Placenta Infected "white"*)
- On the other hand, with the laser beam pointed at a rot, black placenta, the profile is completely different in shape (*Placenta Infected "black"*)
- Seeds from the control group had a well defined profile
- infected seeds from the experimental group have a completely different profile

Setup: 10 seconds exposure time with 10 scans to average in each measurement, execpt for infected seeds and infected placenta (shorter exposure time, ~1–2 sec).
x–axis units are wavelength in cm^{-1} units centered around 785 nm; y–axis is rescaled with min max normalization.
"Placenta" means laser beam hitting area of the placenta where no seeds are present; "Seed" means laser beam hitting a single seed.

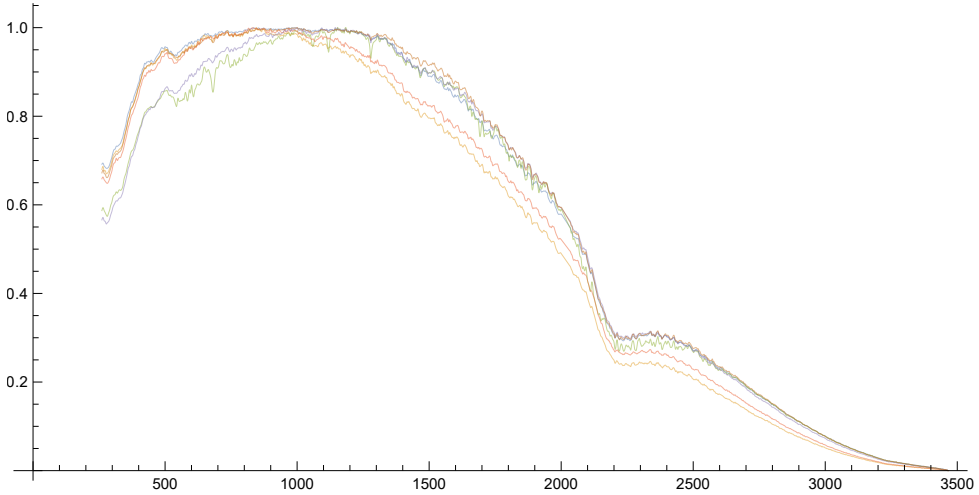
Placenta Control

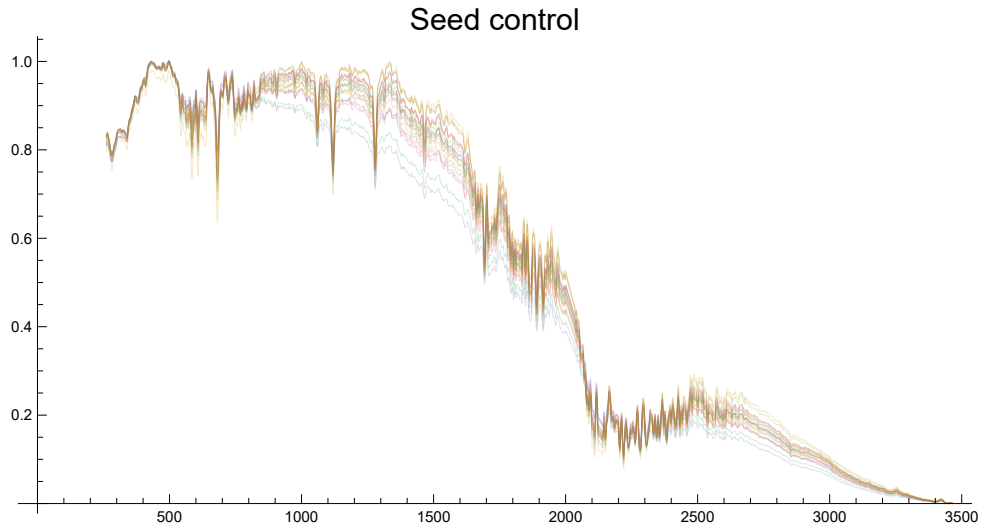


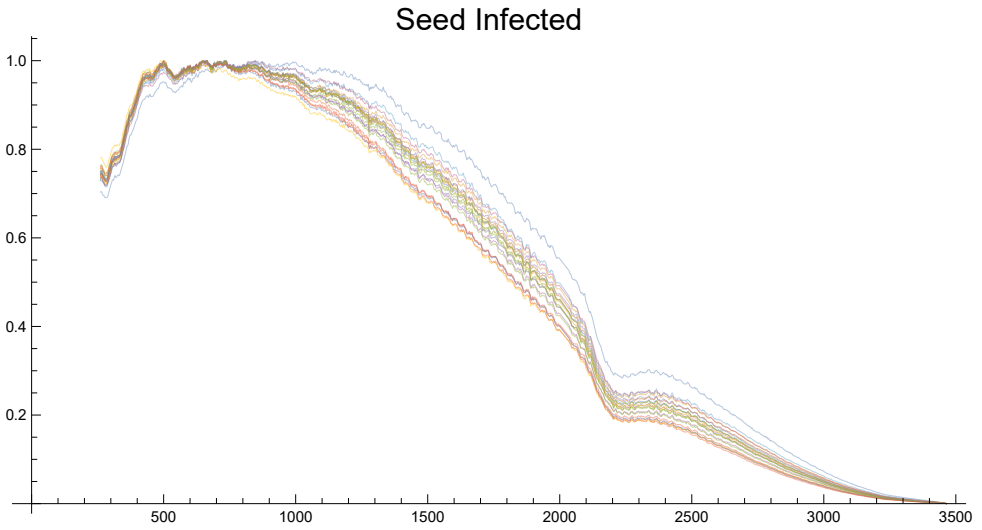
Placenta Infected white



Placenta Infected black




Seed control
1.0
0.8
0.6
0.4
0.2
500
1000
1500
2000
2500
3000
3500


Seed Infected
1.0
0.8
0.6
0.4
0.2
500
1000
1500
2000
2500
3000
3500