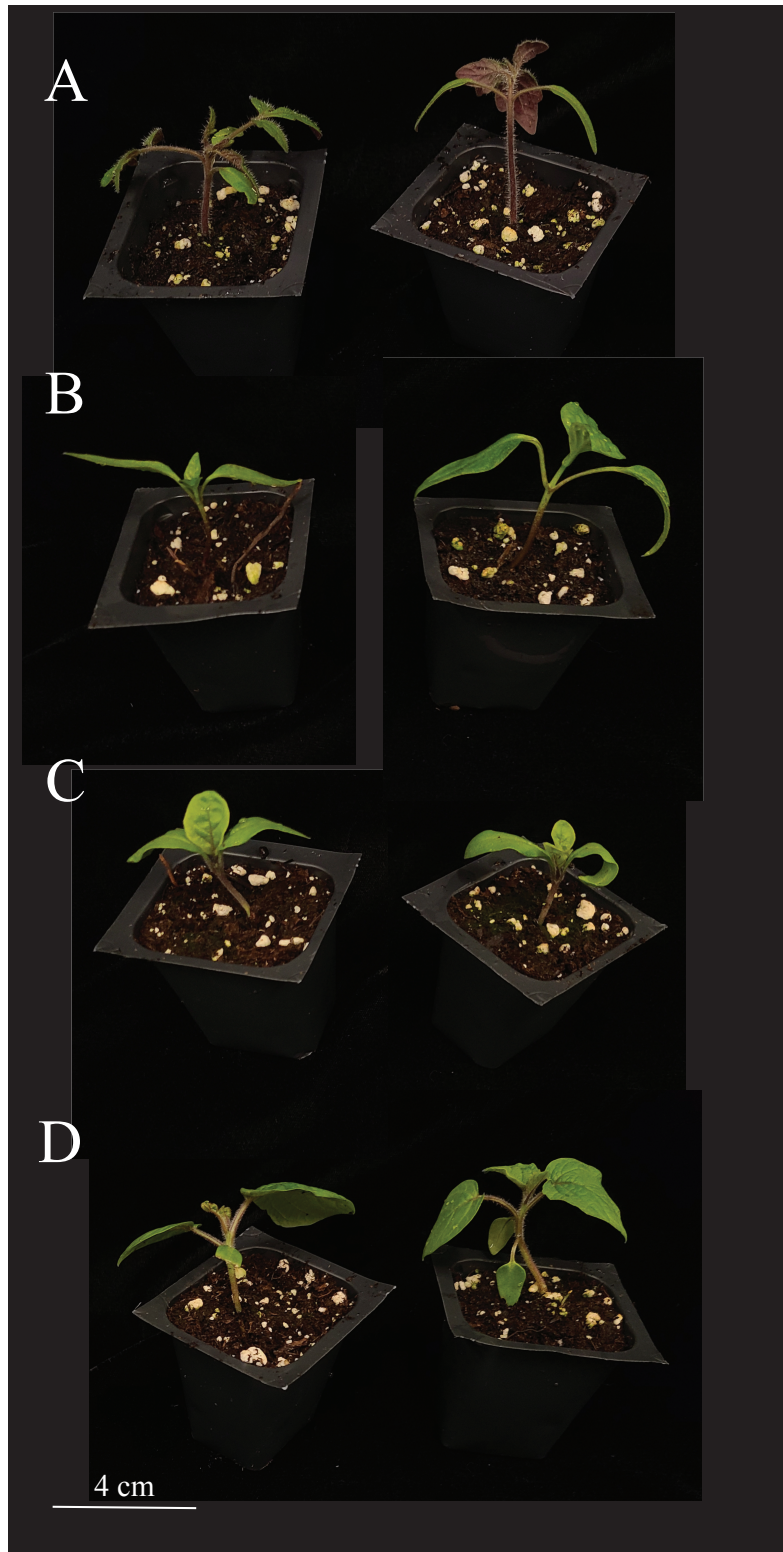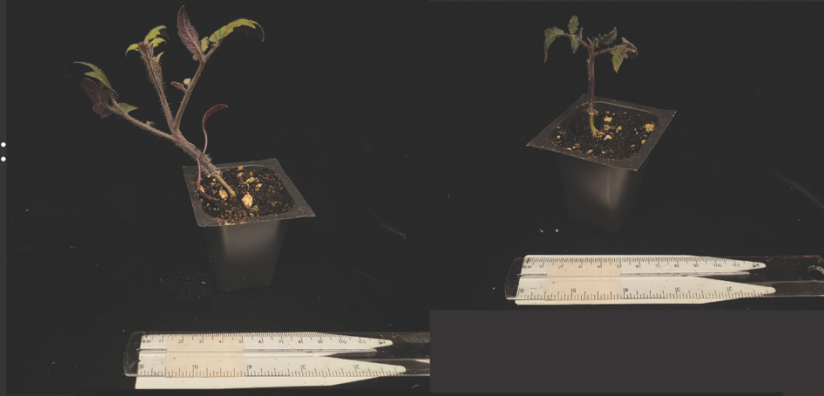## SUPPLEMENTAL FIGURES

Fig. S1: Solanoideae species utilized in graft trial. Duplication of tomato (A), pepper (B), eggplant (C), and groundcherry (D) seedlings used in the graft trial (Fig.s 2). All images set to equal, scale bar = 4 cm.
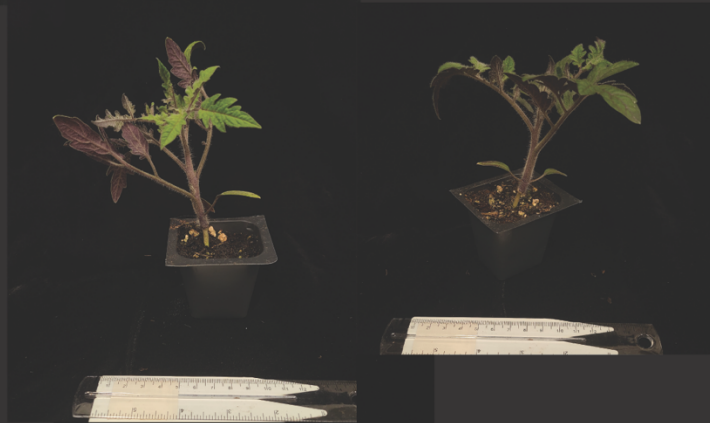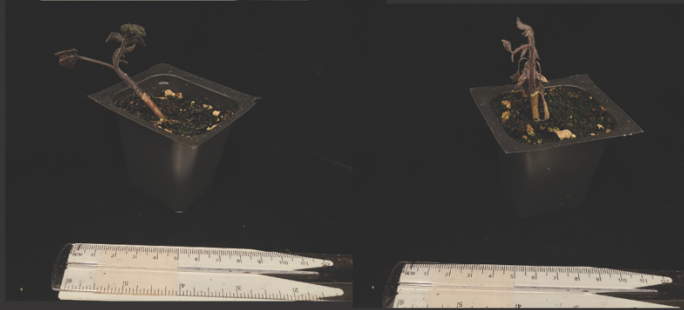
A

Tomato:
Pepper

B

Tomato:
Eggplant

C

Tomato:
Groundcherry

D

Tomato:
Tomato

E

Eggplant:
Tomato

F

Eggplant:
Eggplant

G

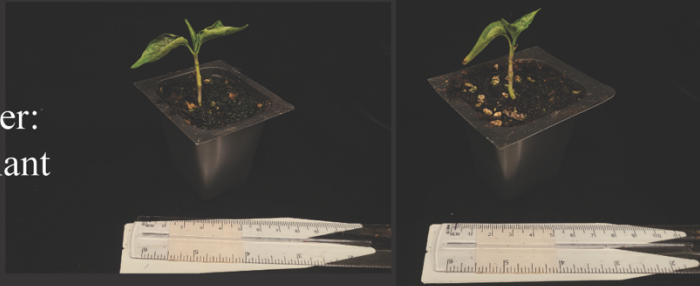Eggplant:
Pepper

H

Eggplant:
Groundcherry

I

Pepper:
Tomato

J

Pepper:
Eggplant

K

Pepper:
Pepper

L

Pepper:
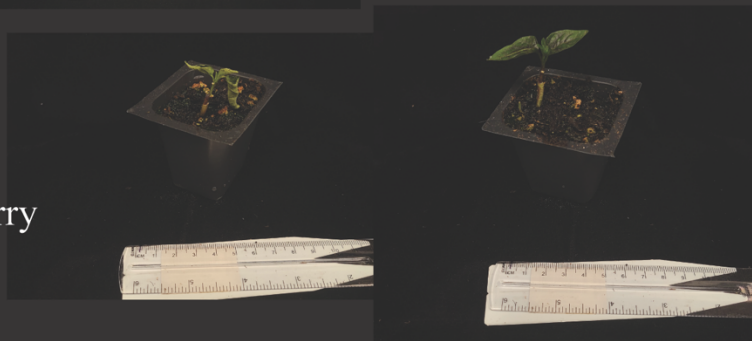Groundcherry

M Groundcherry: Tomato

N Groundcherry: Pepper

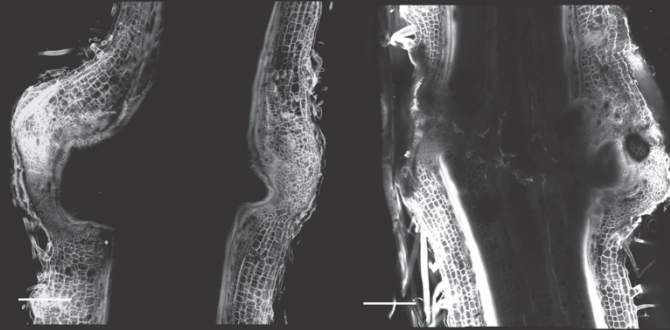**O** Groundcherry: Groundcherry

Fig. S2: Solanoideae graft combinations 30 DAG. Additional images of tomato:tomato (A), tomato:eggplant (B), tomato:pepper (C), tomato:groundcherry (D), eggplant:tomato (E), eggplant:eggplant (F), eggplant:pepper (G), eggplant:groundcherry (H), pepper:tomato (I), pepper:eggplant (J), pepper:pepper (K), pepper: groundcherry (L), groundcherry:tomato (M),   groundcherry:pepper (N), groundcherry:groundcherry (O) grafts shown in Fig. 3.Ruler shown below each plant.
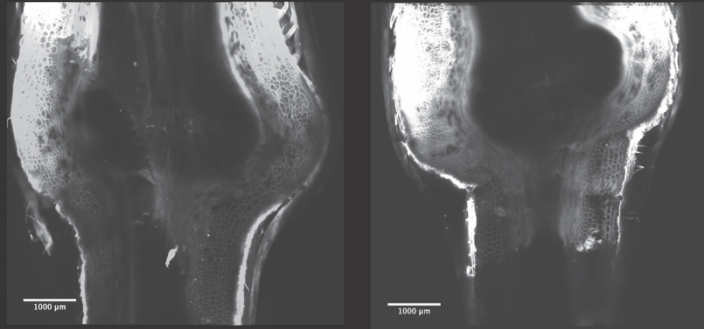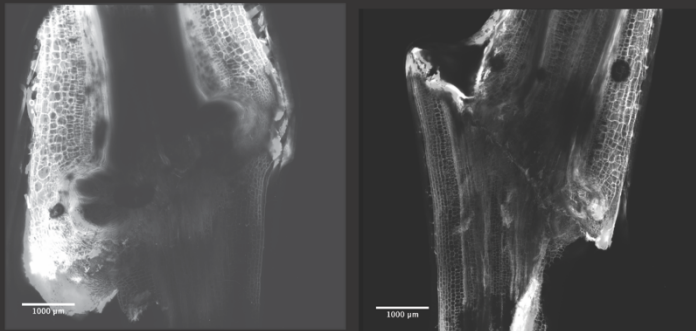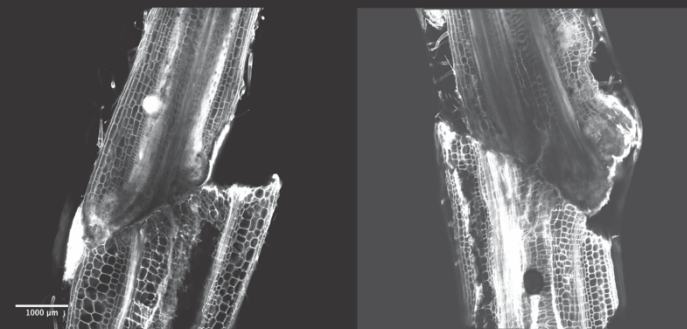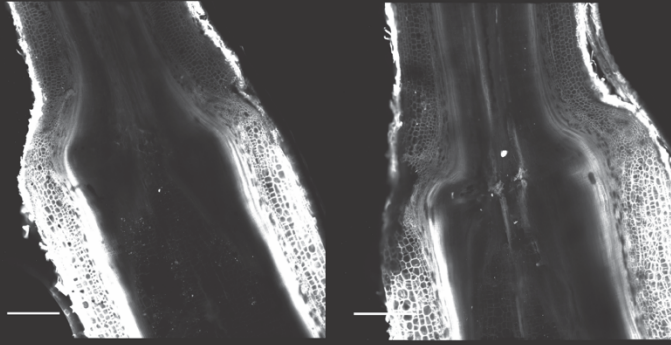
A Tomato:
   Tomato

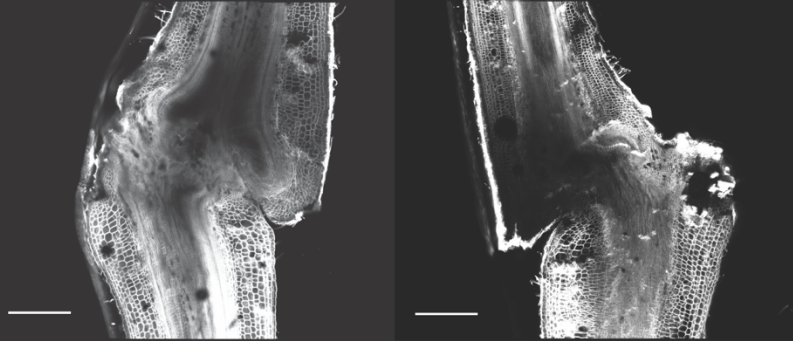B Tomato:
   Eggplant

C Tomato:
   Pepper

D Tomato:
   Groundcherry

E Eggplant: Tomato
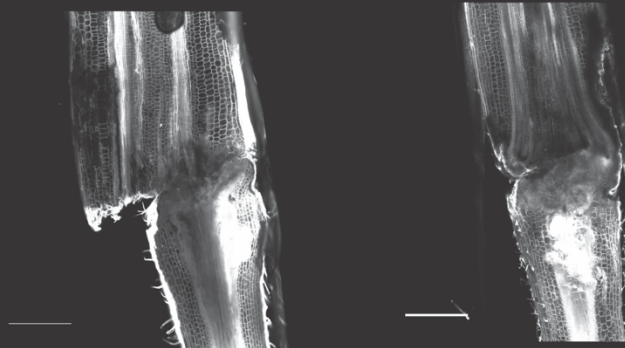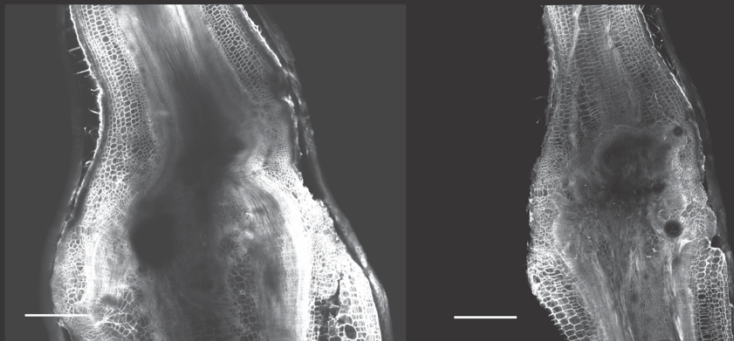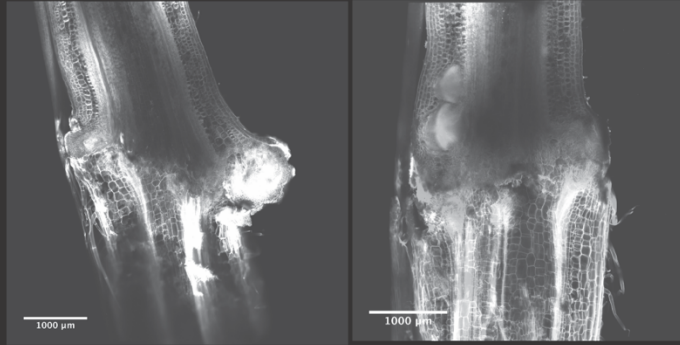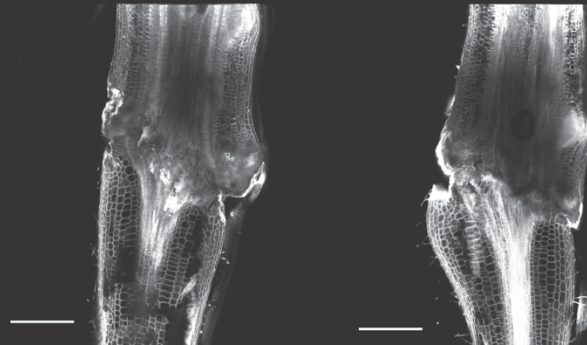
F Eggplant: Eggplant
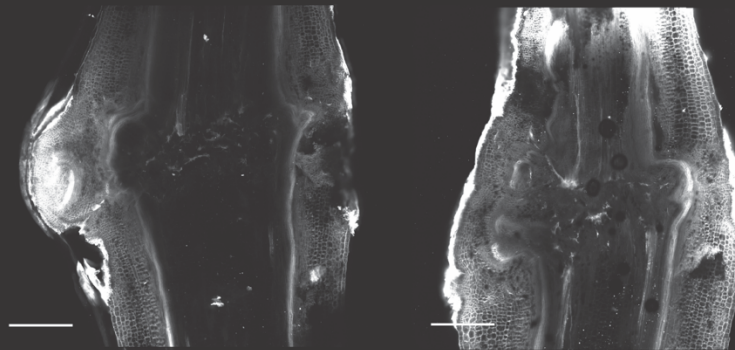
G Eggplant: Pepper

H Eggplant: Groundcherry
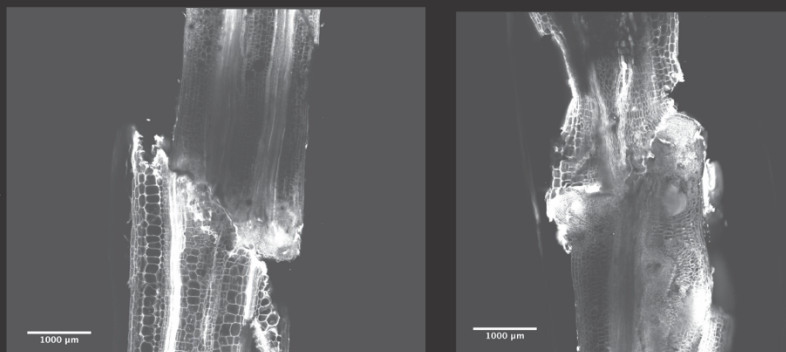
I

Pepper:
Tomato

J
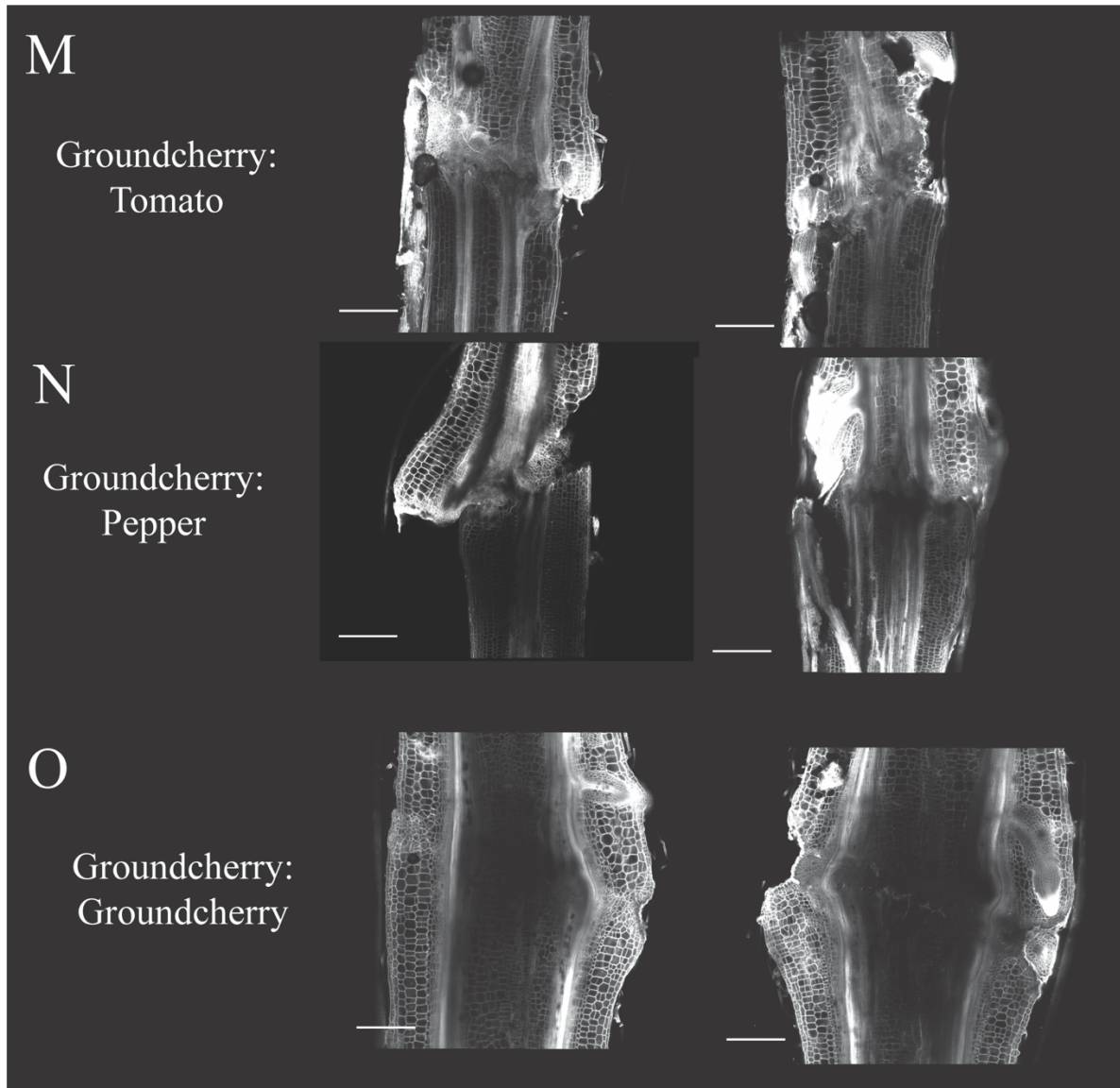
Pepper:
Eggplant

K

Pepper:
Pepper

L

Pepper:
Groundcherry

Fig. S3: Propidium iodide stained solanoideae graft junctions 30 DAG. Duplication of tomato:tomato (A), tomato:eggplant (B), tomato:pepper (C), tomato:groundcherry (D), eggplant:tomato (E) , eggplant:eggplant (F), eggplant:pepper (G), eggplant:groundcherry (H), pepper:tomato (I), pepper:eggplant (J), pepper:pepper (K), pepper:groundcherry (L), groundcherry:tomato (M), groundcherry:eggplant (N), groundcherry:pepper (O), groundcherry:groundcherry (P) grafts shown in Fig. 6. Scale bars are equal to 1 mm.
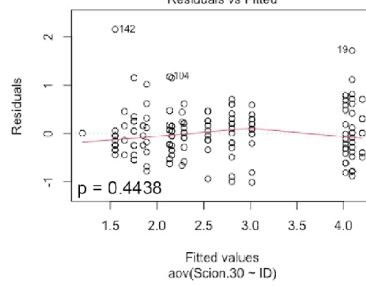
Tukeys Multiple Comparision of Means
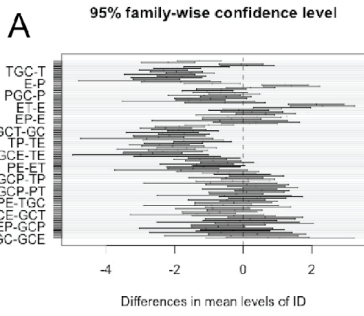
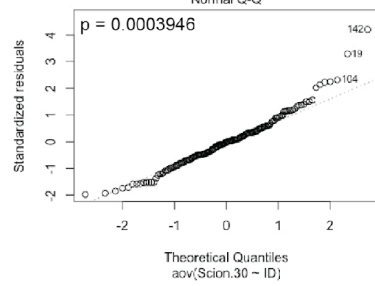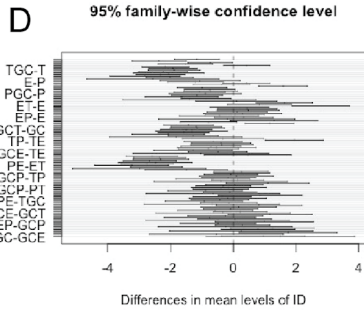# Levene Test of Homogeneity

Wilks-Shapiro Test for Parametric Analysis
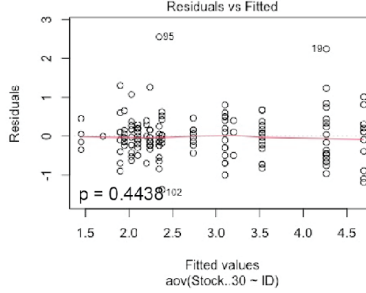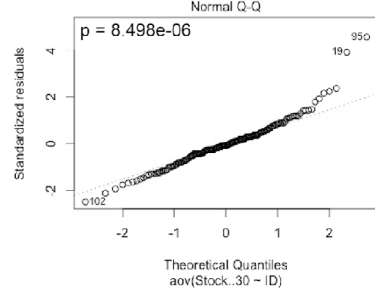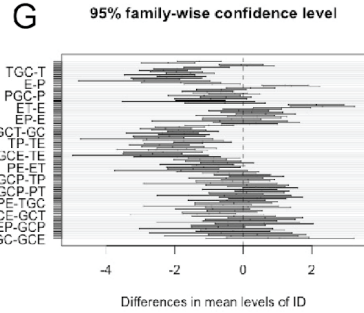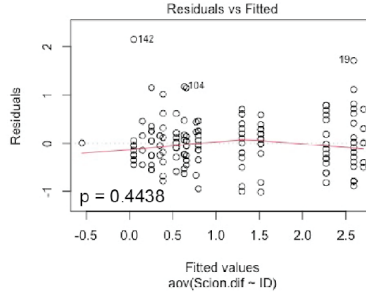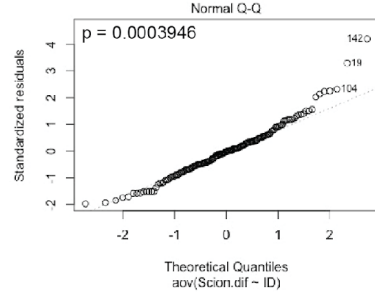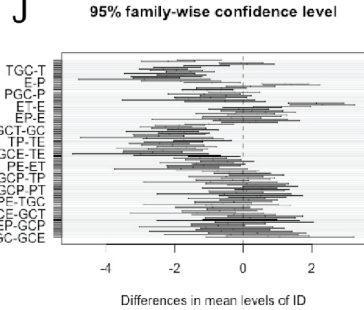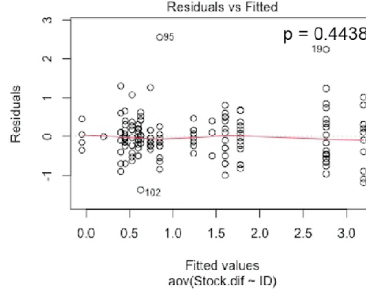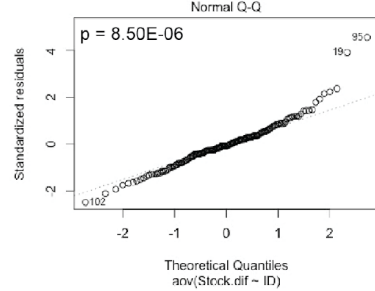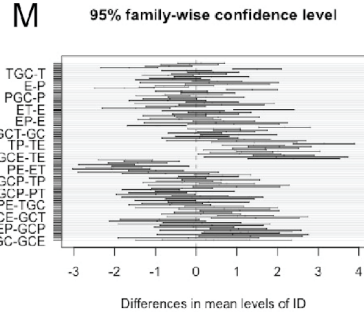
Fig. S4: Tukey's Multiple Comparison of Means, Levene's Test and Wilks-Shapiro Tests. Tukey's Multiple Comparison of Means Test was used to perform pairwise comparisons (A, D, G, J, M). Levene's Test of Homogeneity was used to determine if the data was homogenous (B, E, H, K). A p-value above 0.05 means the data is homogeneous. Wilks-Shapiro test was used to determine the parametric nature of the data (C, F, I, L). A p-value above 0.05 means the data is normal.