

Study Design-Avinash Srivastava

GCTOF

Arabidopsis leaves-18

Sample Prep: Plants are 30-35d old. They were harvested in liquid N2, grounded to fine powder, distributed to individual falcon tubes and kept at dry ice before handing over the sample to core facility.

Treatments: single treatment-gene impact on plant metabolites and compared to WT control

1. Control (A,B,C,D,E,F- total 6 replicates)
2. Sample 1 (A,B,C,D,E,F- total 6 replicates)
3. Sample 2. (A,B,C,D,E,F- total 6 replicates)

Interest: We are trying to measure impact of our genes that we have introduced into WT lines and compared the metabolic profiling with WT-control plants. We are particularly interested in pyruvate, fumarate, malate, glyoxylate, anthocyanin, carotenes, and lipid compounds.

Lipidomics

Arabidopsis seeds-18

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