

## PROJECT TITLE

Unraveling the genetic basis of heterosis driven beneficial interactions between maize roots and microbes and plant performance for a sustainable agriculture

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## CONSORTIUM

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# SUMMARY OF THE REPORT

The funded “**MiniPloted Multi-omics**” (ID:34) project had performed a large number of maize genotypes (n = 301) screening for photosynthesis traits from different modern inbred lines and their F1 hybrids crossed with one common donor. Moreover, we have tested the genotype specific responses to different drought treatments e.g. mild drought and followed by recovery in the greenhouse.

For photosynthesis measurements we selected the LIFT instrument and integrated this in the miniplot system but were not successful due to technical complications. Hence the LIFT instrument was adjusted to a field4cycle positioning system that was adjusted to fit in the greenhouse. The results are pending soon.