

PROJECT TITLE

SYM-phenom: Phenotyping of genetically characterized barley genotypes for their endophyte-induced yield response and priming capacities

CONSORTIUM

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SUMMARY OF THE REPORT

The aim of this collaboration was to identify and characterise the **priming response** of selected barley genotypes to colonisation by the endophyte *Piriformospora indica*. We characterised the endophyte-induced phenotypic changes in terms of plant physiology, shoot and root morphology/biomass, grain yield and biotic stress tolerance. The priming agent was the beneficial endophyte *Piriformospora indica* (Basidiomycota). The time needed for the whole experiment was 4 months. We found extreme phenotypic and genetic variability of barley genotypes for the analysed priming response.