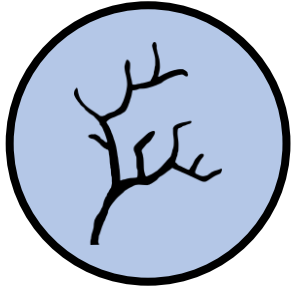


Four-way interactions in the plant holobiont: How does plant viral disease alter fungal and bacterial community assembly?

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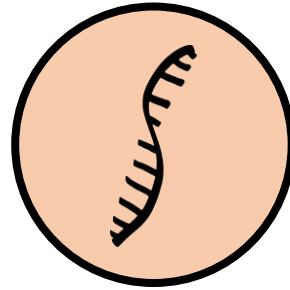
²Department of Plant, Soil, and Microbial Sciences, Michigan State University



Fungal Endophyte
Fusarium solani sp. comp.
MC67



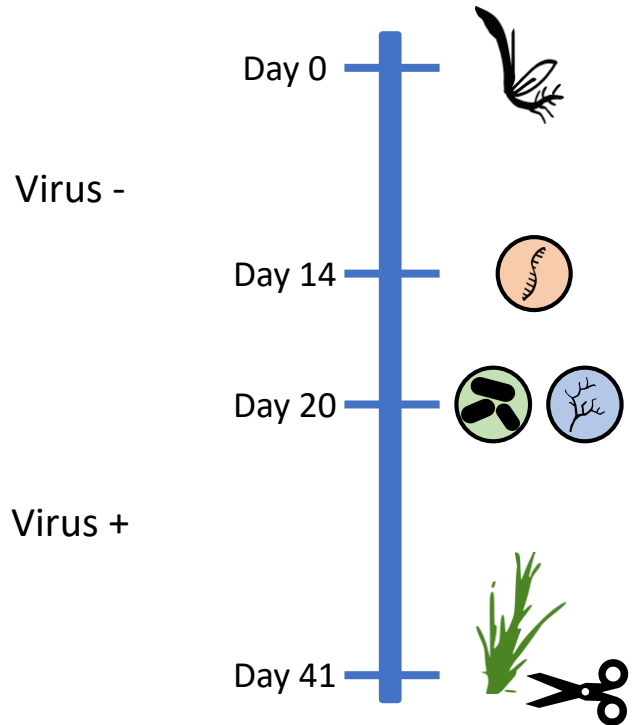
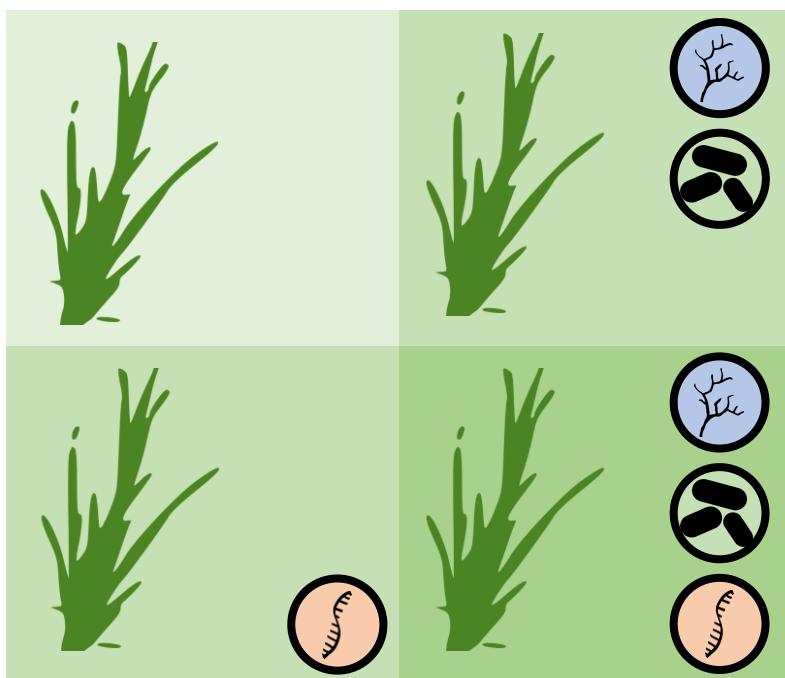
Bacterial Endophyte
Enterobacter ludwigii
FCP2-01



Barley Yellow Dwarf Virus
Luteovirus (+)ssRNA

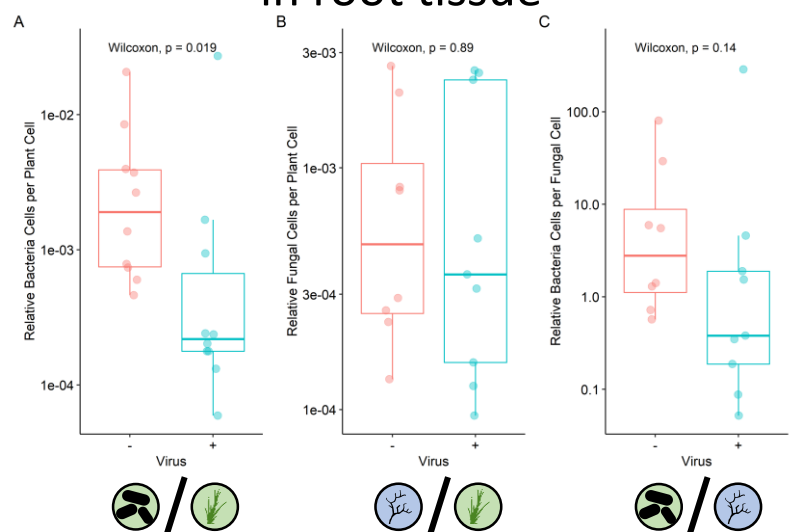
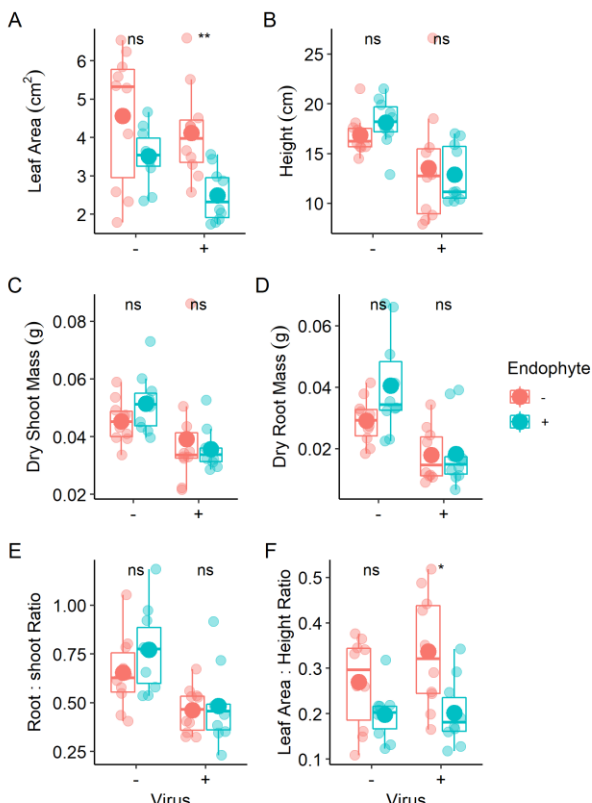


Host Plant
Brachypodium distachyon
Bd21-3



Plant traits

qPCR-based microbial abundance in root tissue



Conclusions

- Virus infection decreases bacterial abundance in roots
- Endophyte and virus infection have non-interacting effects on host