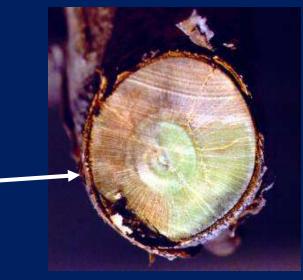


Stem Blight *Botryosphaeria dothidea*

and others





Cut a cross section through the stem

Stress conditions

Physical (Winter injury, wounding, water stress)

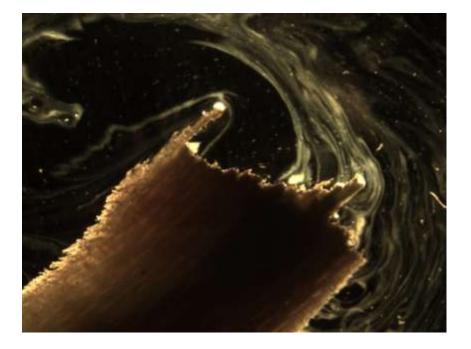
Biological (Insect feeding)

Crown Dissections



Ralstonia Infections

Streaming typical of Ralstonia Wilting and sudden leaf drop







Proper pruning is key to disease control

Root Rot







Phytophthora root rot

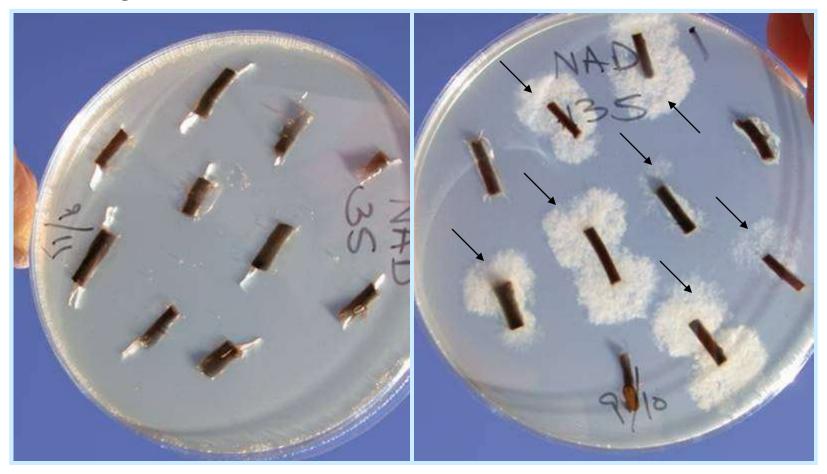




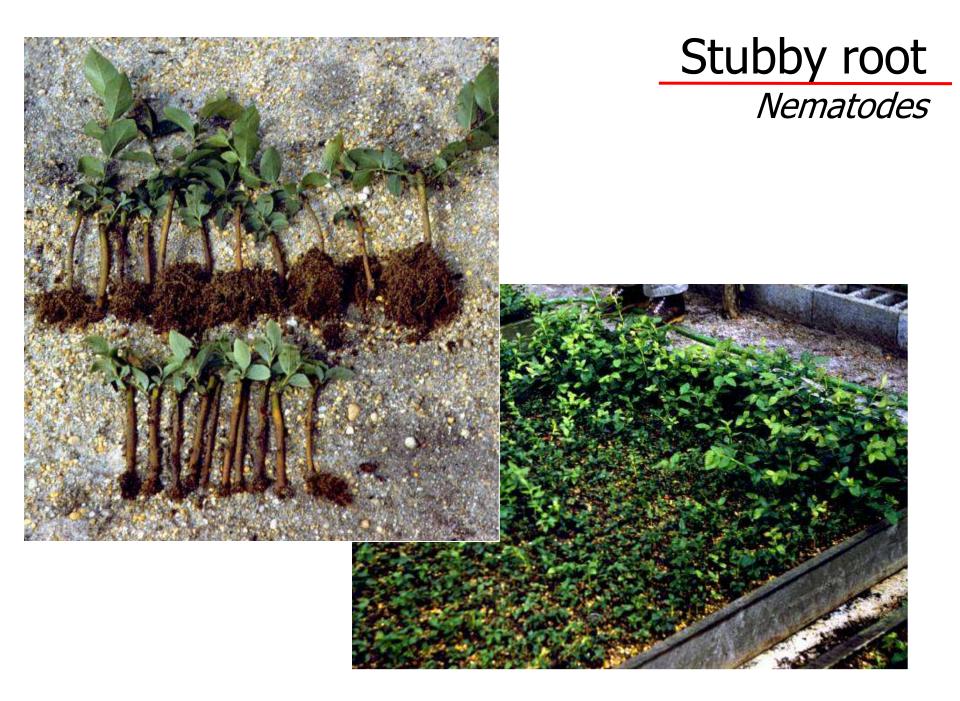
Phytophthora isolation using PARPH selective medium

Negative

Positive





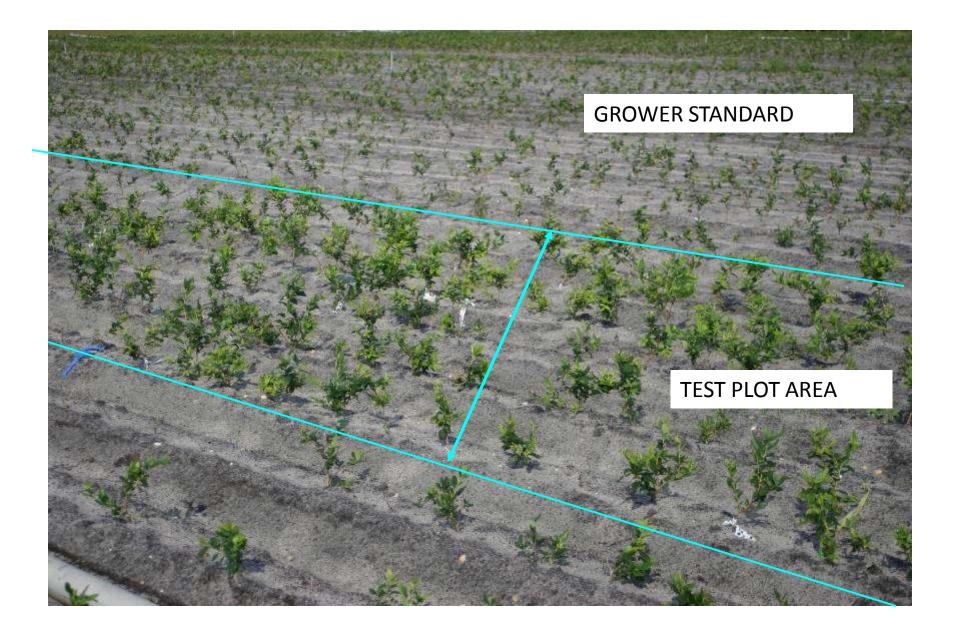


UNTREATED CONTROL

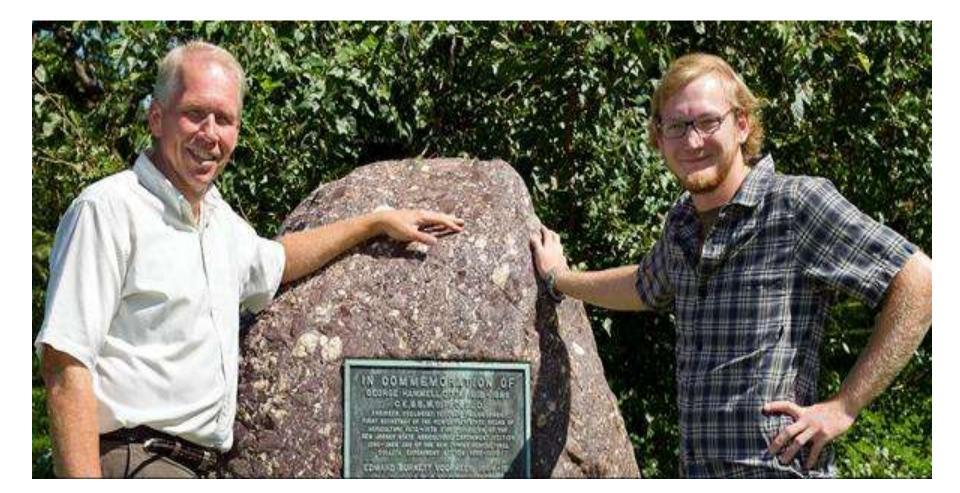


Vydate 8 pts, 2 applications





Black Shadow Research Progress Timothy J. Waller





Symptomatology

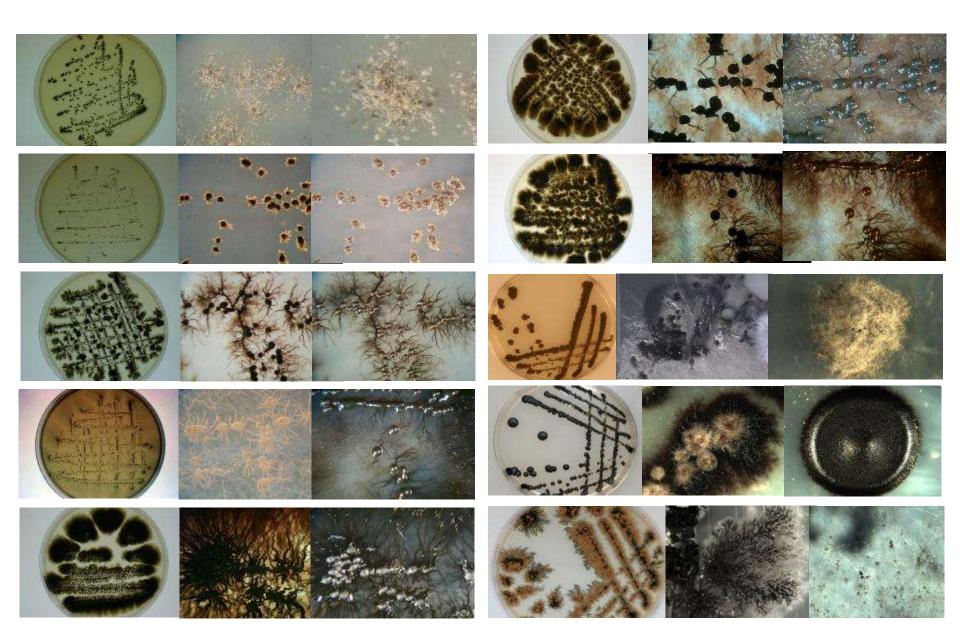


Isolations

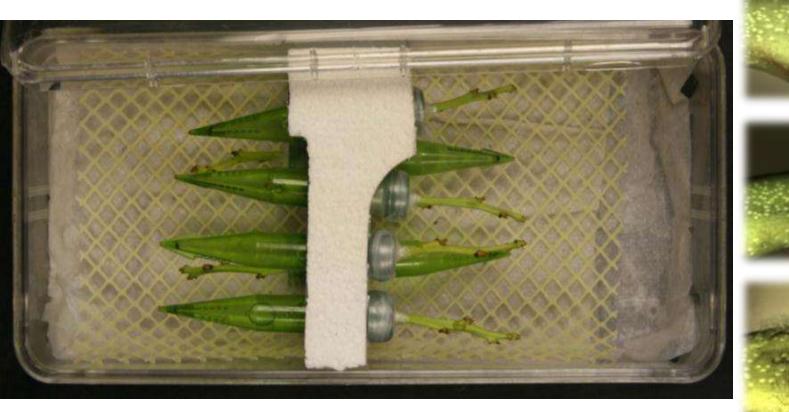


- 1. Forty symptomatic stem samples were collected
- 2. Scraped the cuticle tissue and plated onto clarified V8 agar amended with ampicillin and streptomycin.
- 3. The four most common morphotypes were selected for further characterization.

High degree of morphotype variability



Water-pick re-infectivity studies

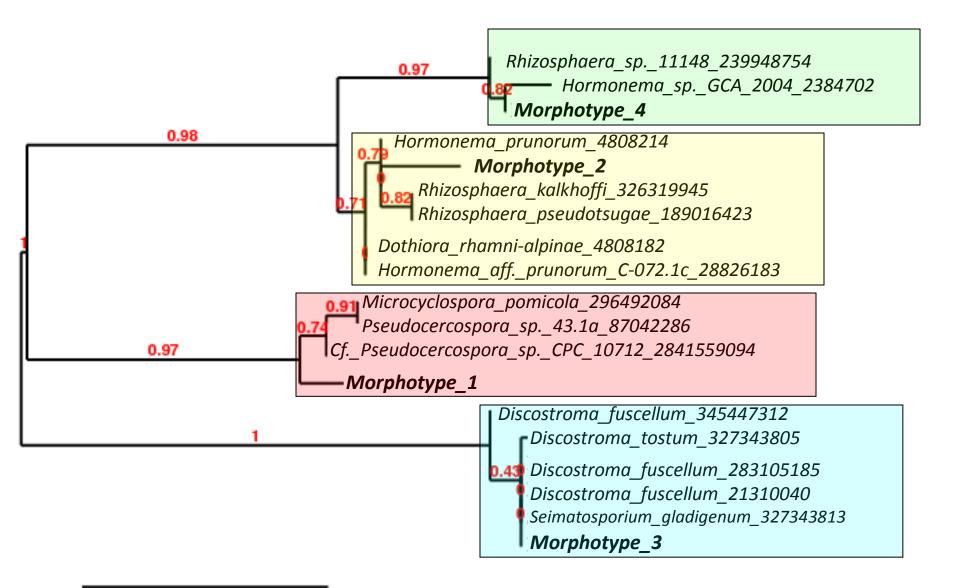




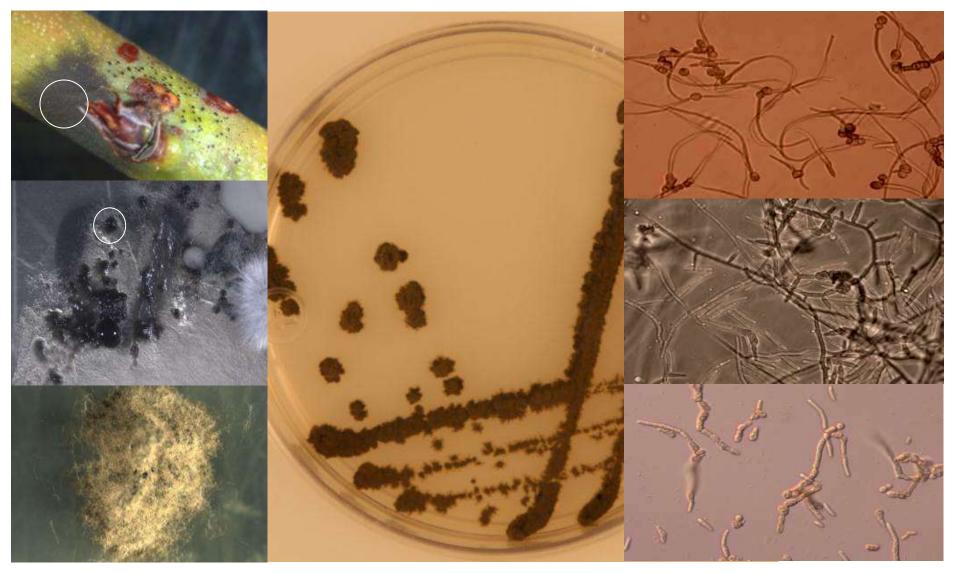
MT2

MT3

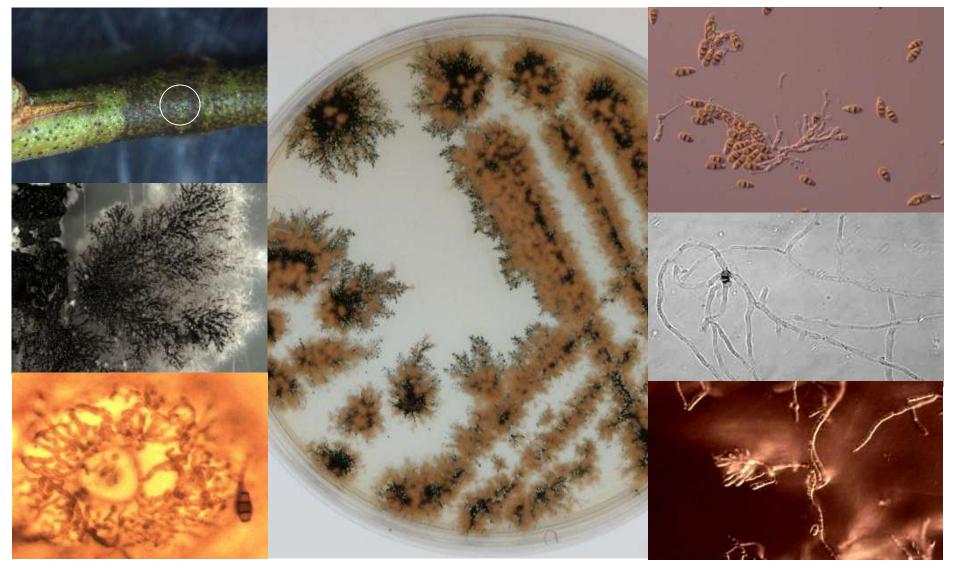
ITS rDNA sequencing



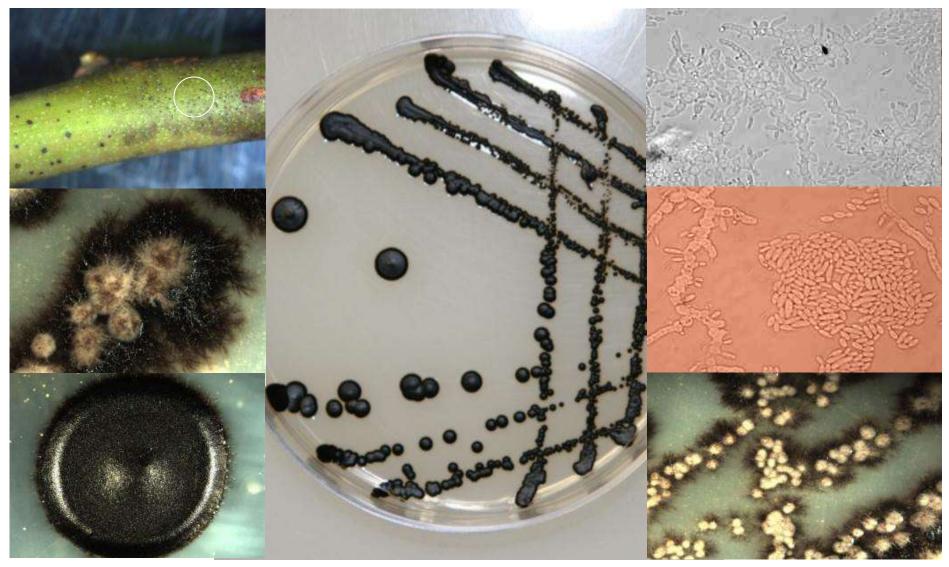
Morphotype 1 related to Pseudocercospora



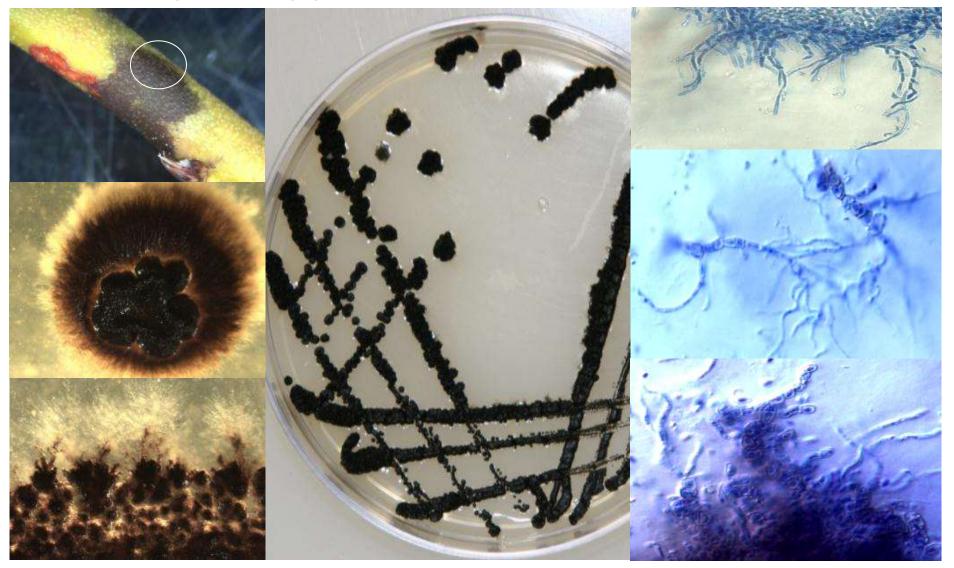
Morphotype 3 related to Discostroma



Morphotype 2 Rhizosphaera and Hormonema?



Morphotype 4 Rhizosphaera and Hormonema?



How is it spread

Wind driven water dispersal

Rain droplet analysis





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