SUPPRESSION OF MACROPHOMINA WITH WHEAT?



1962: fumigation with methyl bromide + chloropicrin reported by Wilheim to control Verticillium wilt of strawberry.



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Used as a preplant eradicant in nearly all conventional strawberry plantings in California since...



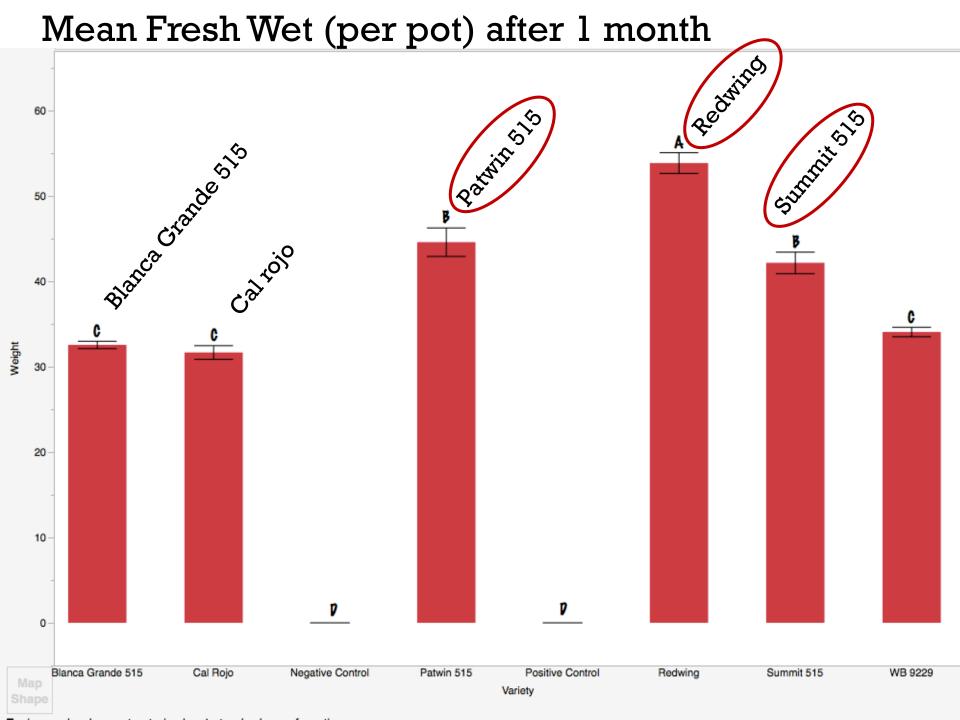
Are there California wheat cultivars that suppress Macrophomina crown rot?

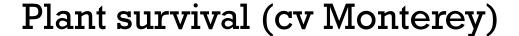


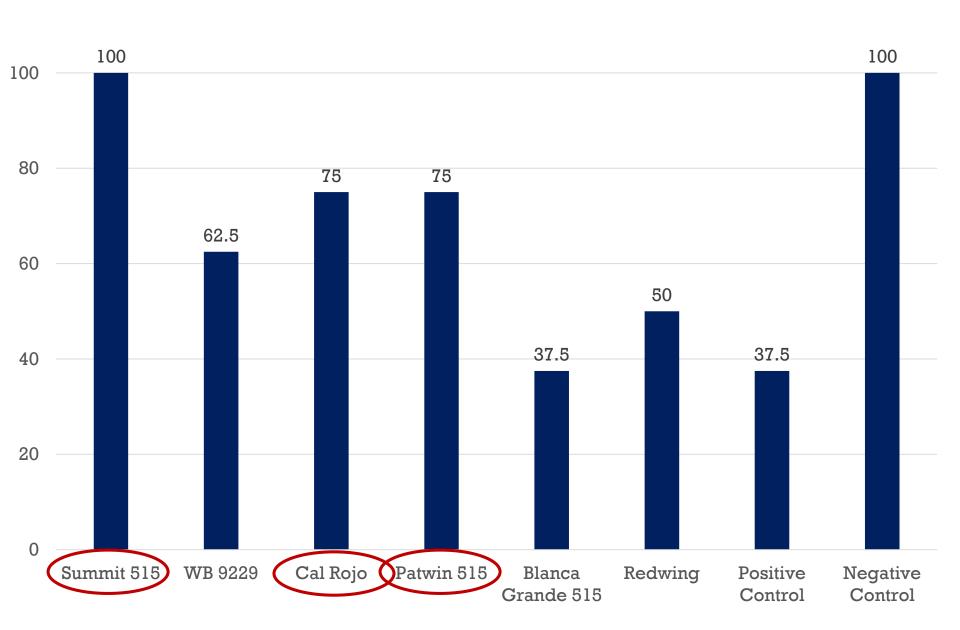




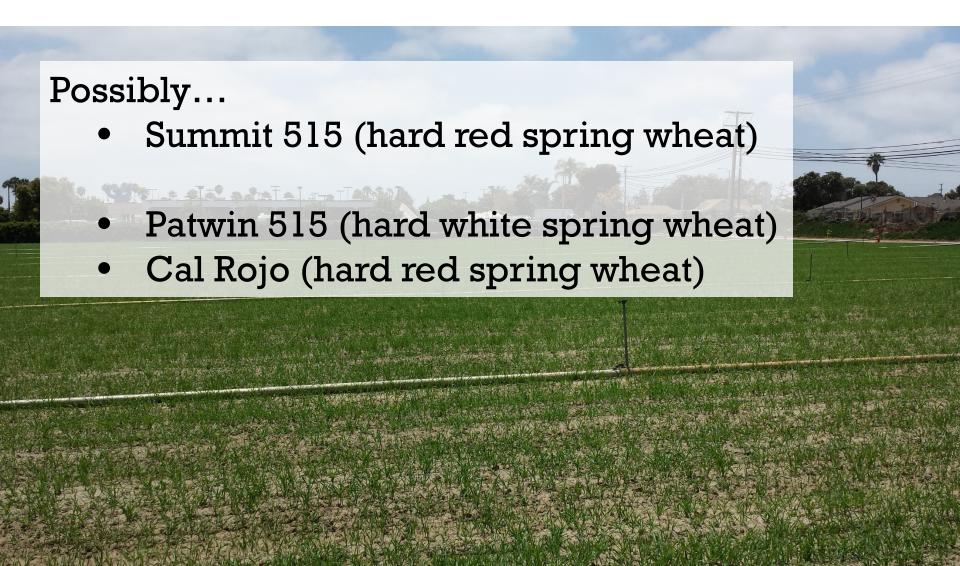




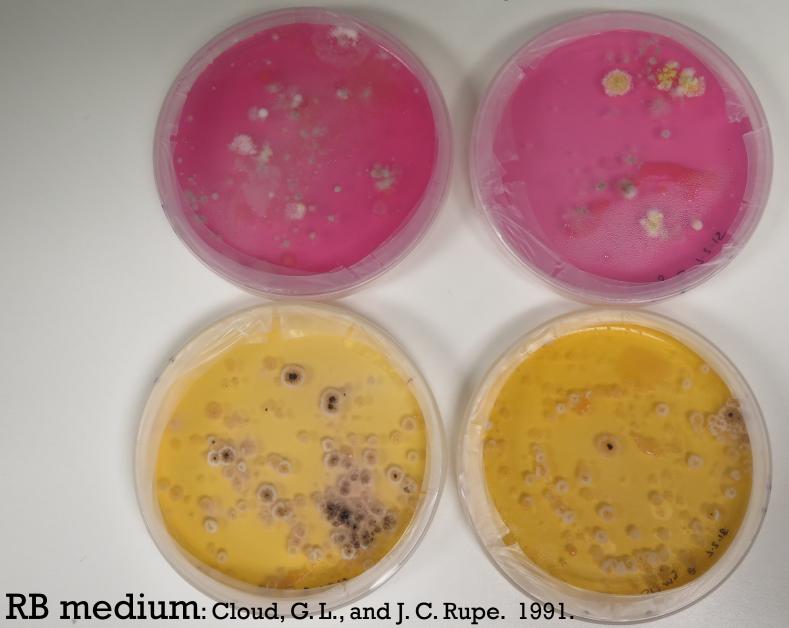




Are there California wheat cultivars that suppress Macrophomina crown rot?



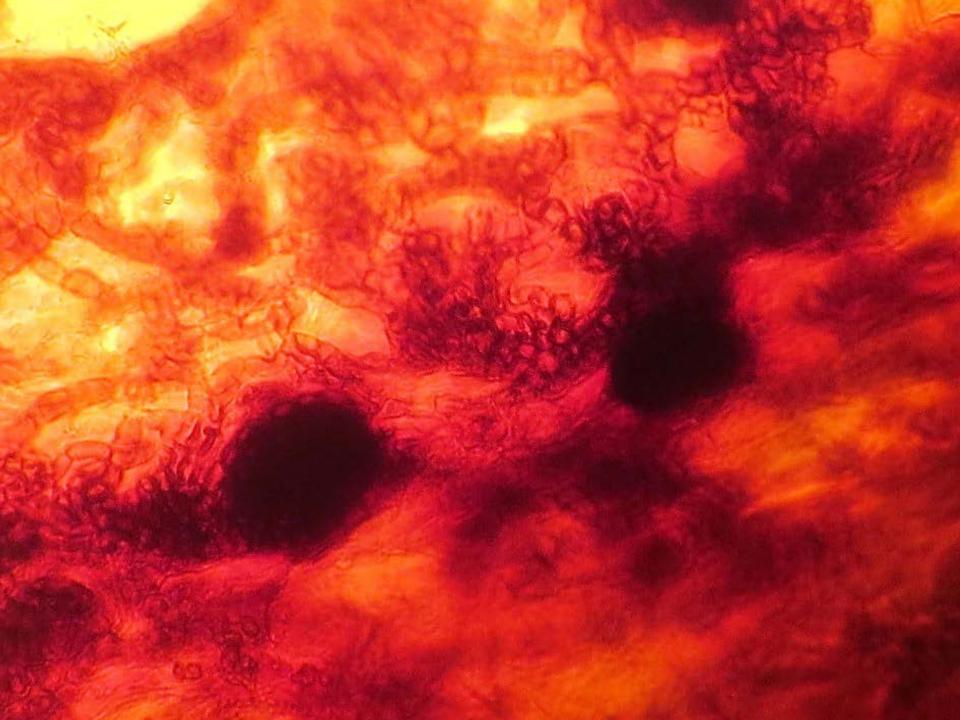
MSA medium: Zveibil, A., Mor, N., Gnayem, N., and Freeman, S. 2012.



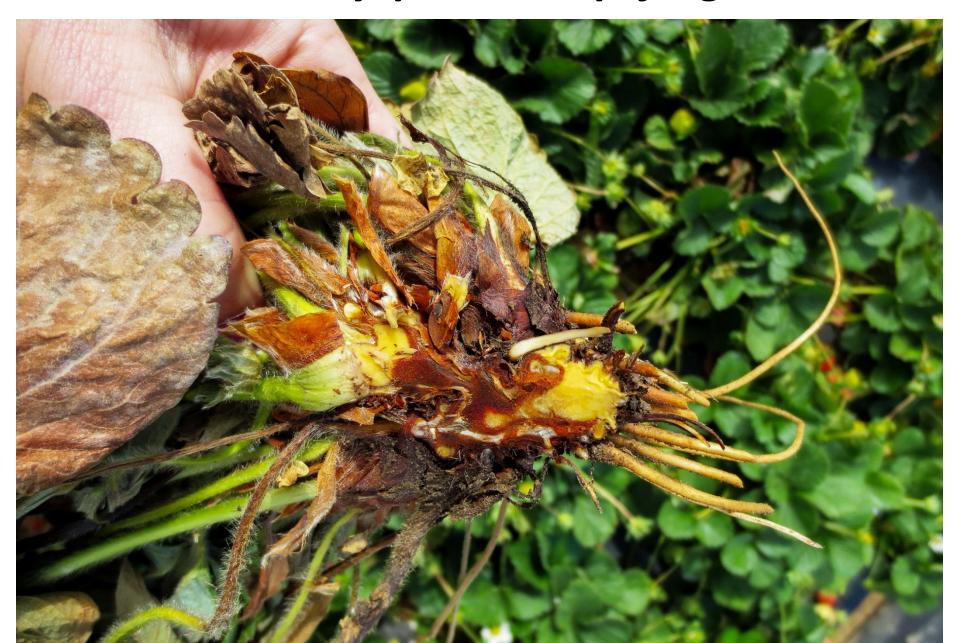
Macrophomina phaseolina







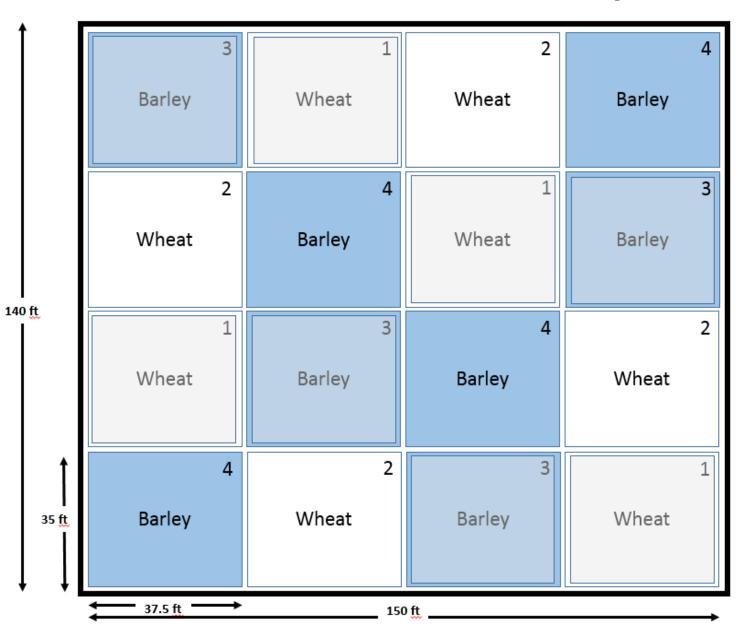
Fusarium oxysporum f. sp. fragariae



Verticillium dahliae



Verticillium dahliae naturally infested field



Treatments

- Wheat + ASD
- . Wheat w/o ASD
- 3. Barley + ASD
- 4. Barley w/o ASD

ASD with Rice Bran



Phytopathology REVIEV

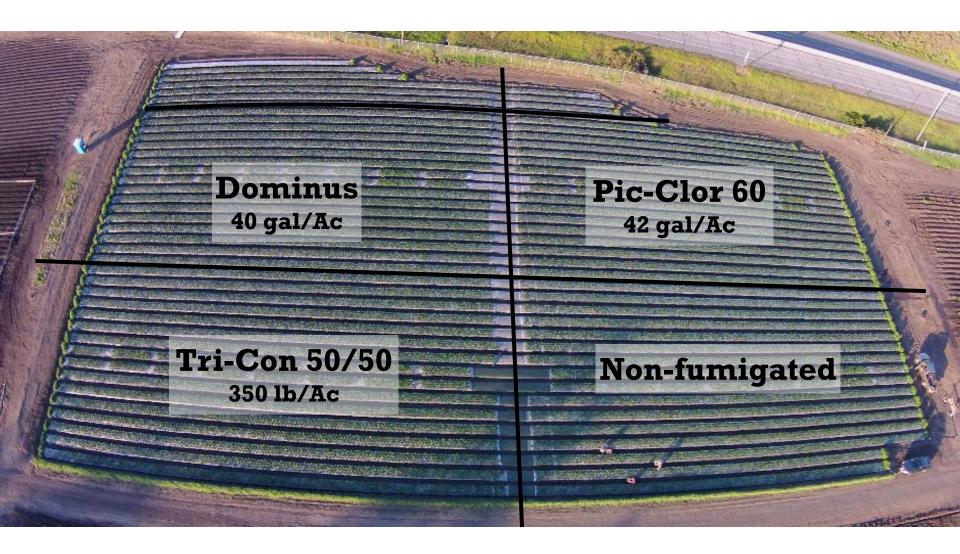
Development and Deployment of Systems-Based Approaches for the Management of Soilborne Plant Pathogens

D. O. Chellemi, A. Gamliel, J. Katan, and K. V. Subbarao

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Verticillium dahliae naturally infested field

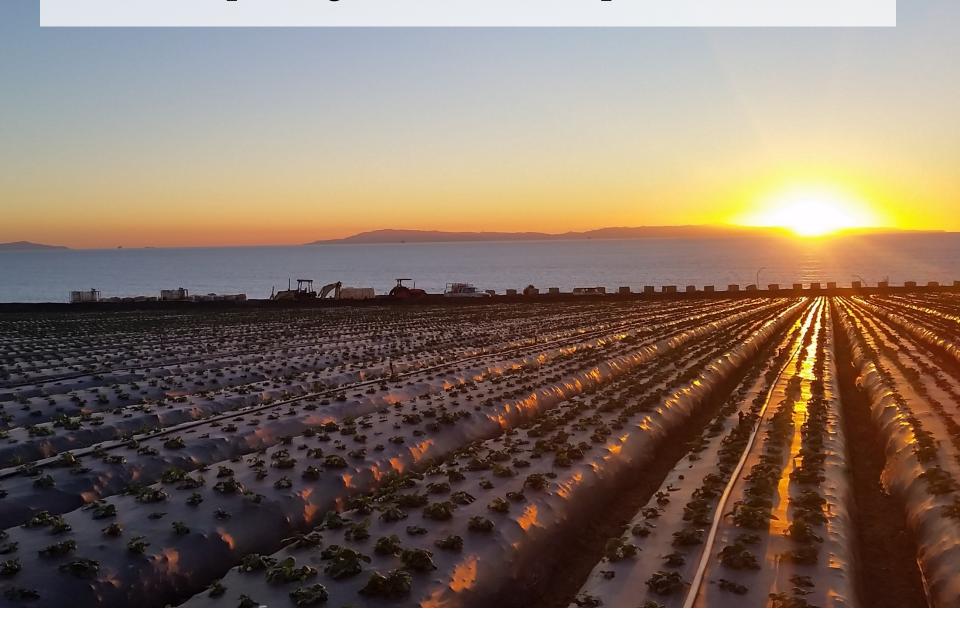




Verticillium dahliae naturally infested field



Soilborne pathogens are NOT equal;



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Knowing which one is established in your field is important;



Soilborne pathogens are NOT equal;

Knowing which one is established in your field is important;

Different treatments impact pathogens differently.

