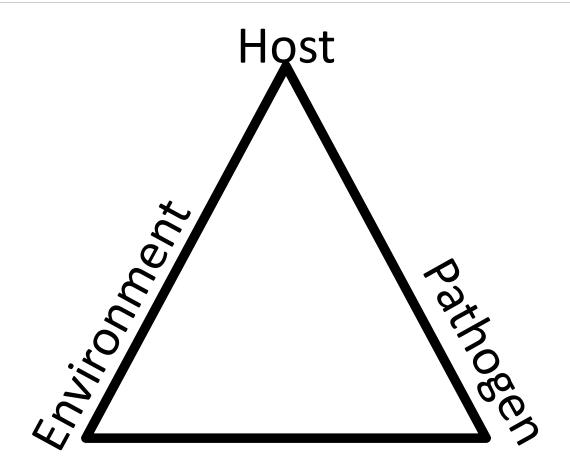
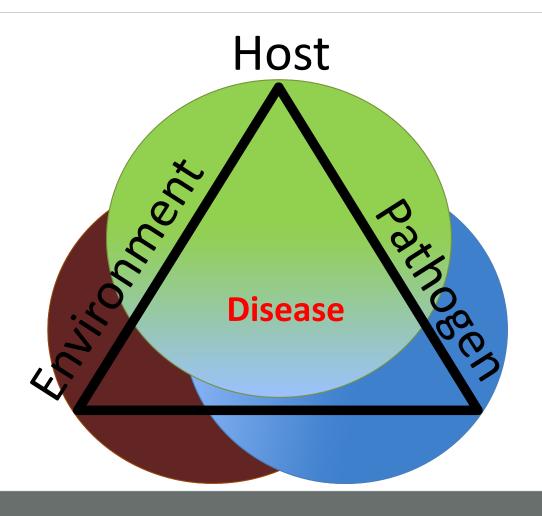
Revolutionary Approach to the Plant Disease Triangle Matthew Weaver, CGCS, CPAg

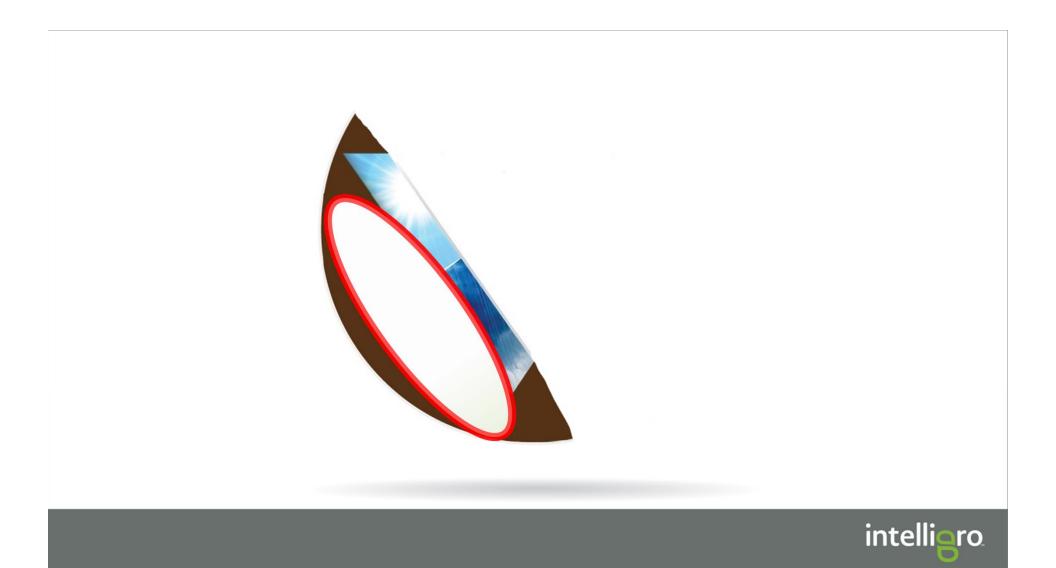


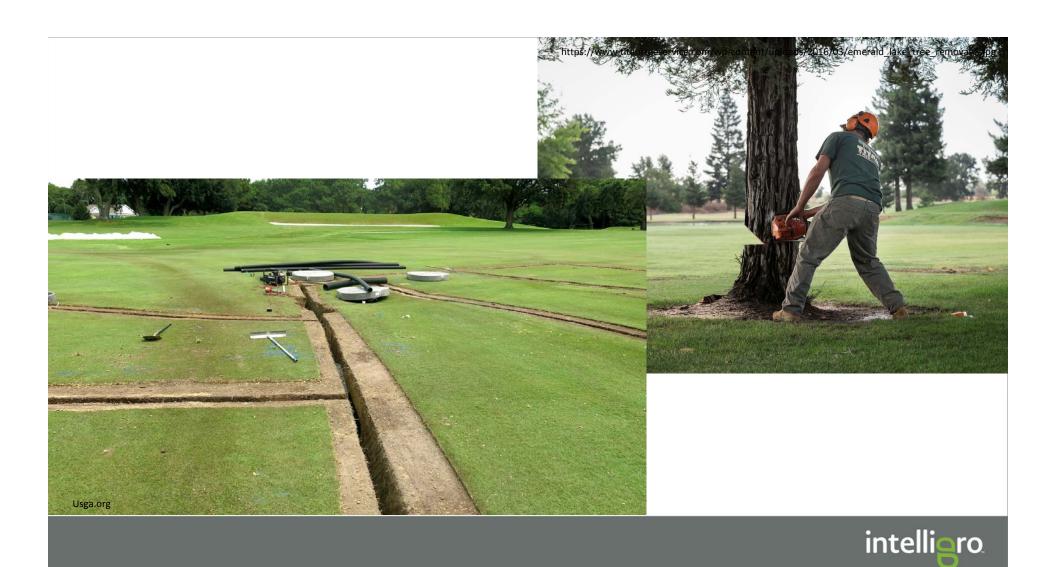






























Antimicrobial Activity – Traditional Fungicide

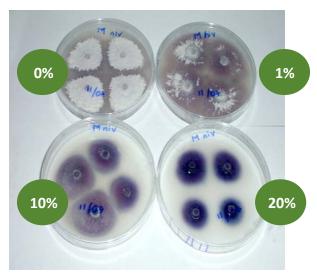




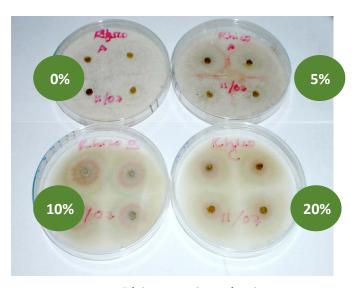
(R. solani) Control Amended



Antimicrobial Activity – Plant Activator







Rhizoctonia solani



Plant Activator in the Field









Select Appropriate Turfgrass Species



Harmon, P. F., and Latin, R. 2003. Gray leaf spot of perennial ryegrass. Online. Plant Health Progress doi:10.1094/PHP-2003-1223-01-DG.



Select Improved Turfgrass Varieties

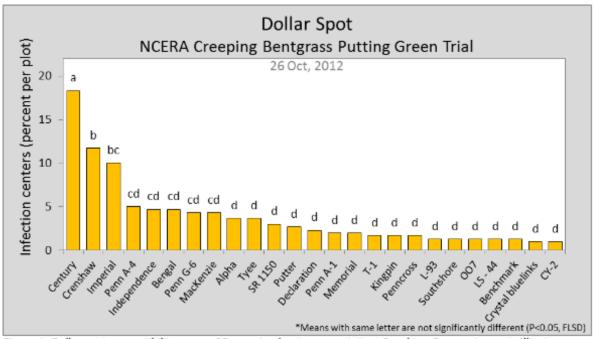


Figure 1. Dollar spot susceptibility across 25 creeping bentgrass varieties, Sunshine Course, Lemont, Illinois.

Tim Sibicky, Research from October 26, 2012 Scouting Report: Turfgrass Research - Creeping Bentgrass Cultivar Selection – Putting Greens



Plant Defense Activators







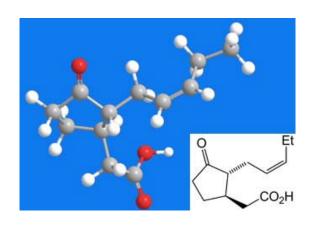




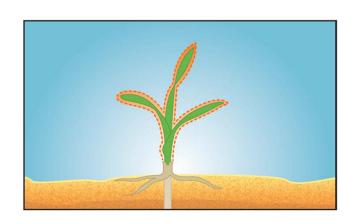








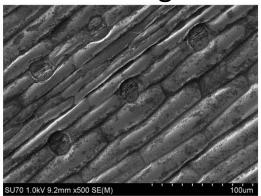
Plant Defense Activator



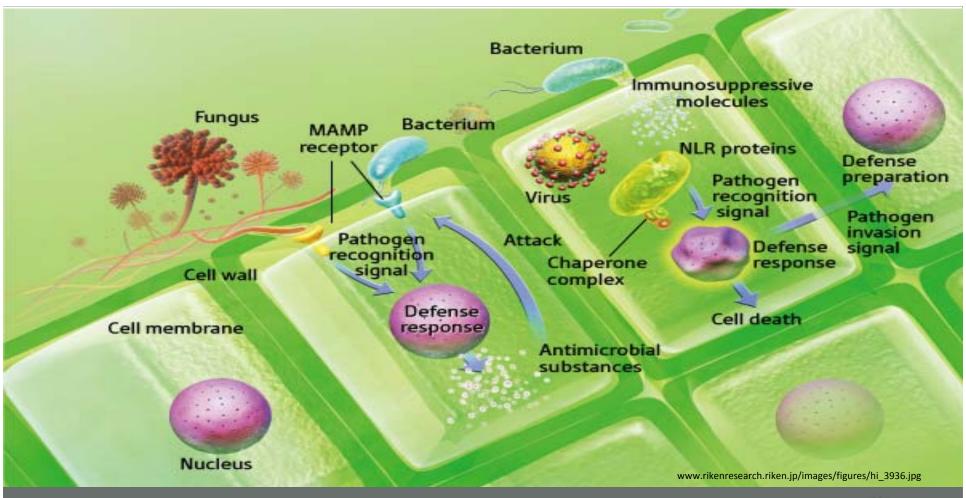
Sacrificial Cell Death



Cell Wall Stregthened













University of Massachusetts - Dr. Michelle DaCosta - Creeping Bentgrass Trial

High Rate

Low Rate

Untreated



- 2 applications prior to drought stress
- Drought initiated 7 days after 2nd application
- 3rd application- 7 days after drought initiated
- Photos- 12 days no water



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CHILLING/FREEZING STRESS



Chemical plant protectants and plant growth regulator effects on annual bluegrass survival of ice cover

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Abstract

Annual bluegrass (Poa annua L; ABG) is susceptible to damage from ice cover. Effects of chemical treatments on ice survival under low temperature growth chamber conditions were studied. Field putting green plots of ABG were treated in the fall of 2014



